

Report to the Auburn City Council

Action Item
Agenda Item No.

City Manager Approval

To: Mayor and City Council Members

From: Rich Ramirez, Interim City Manager

Bernie Schroeder, Director of Public Works

Megan Siren, Administrative Analyst

Date: April 28, 2014

Subject: Sewer Rate Study & Analysis Report

The Issue

For the City Council to receive and file a report related to the 2014 Sewer Rate Update Study.

Conclusion and Recommendation

Staff recommends that the City Council, BY RESOLUTION, preliminarily accept a sewer rate analysis and direct Staff to give notice of proceedings pursuant to Proposition 218.

Background

On April 14, 2014, staff brought forth a status up regarding the Sewer Rate Study & Analysis update being completed by G Aronow Consulting. The Analysis identifies needed improvements to keep the wastewater treatment plant and sewer collection system in compliance with the California State Water Quality Control Board and the Federal Environmental Protection Agency requirements along with operating system improvements designed to avoid future system costs. At the April 14th City Council meeting the working draft for the Sewer Rate Study Update estimated the increase to the monthly Sewer Service Charges to be in the range of \$6.00 to \$8.00 over the existing rate. Staff is pleased to report that the final draft of the Sewer Rate Study Update shows the increase to the monthly Sewer Service Charge to be \$5.63 over the existing rate.

At that Council meeting several suggestions were made including but not limited to:

- What would it take to move away from the current billing format of billing based on Equivalent Dwelling Units (EDU) to a water consumption billing format, e.g.
- Detail why restaurants have a higher charge? If it can be demonstrated or justified to shift the restaurant rate, what would the new rate structure look like?
- Specify the amount programed for the Regional Sewer Project and what % of the sewer rate makes up the fee adjusting for use of reserves to write down capital costs
- Is there a way for the City to subsidize seniors regardless of one's ability to pay? If ability to pay is a consideration, staff would need more information from the City Council on this point?

Analysis

The City last conducted a Sewer Rate Study in 2007 where the Council approved a 5 year rate schedule. Proposition 218 requires a Sewer Rate Study Update prior to any future Sewer Service Charges changes. The automatic rate adjustment to the current Sewer Service Charges expired on June 30, 2013. By not replacing the sewer rate necessary repayment of projected annual debt service related to capital projects will go unfunded. In particular, the Oxidation Ditch Improvement Project and the City's contribution to the Regional Sewer Common Pipeline Project, as well as other ongoing improvements to lift stations and collection system projects will not have a designated funding source. The Sewer Service Charges also needs to be adjusted for increased costs of operating and maintaining the sewer system (estimated at approximately 3-4% per year).

Sewer Billing Methodology

There are a number of methodologies the City can utilize to assign sewer rates to its customers. Sewer rates are currently a flat rate based on an equivalent dwelling unit (EDU) which refers to a unit of measure that standardizes all land use types (housing, retail, office, etc.) to the level of demand created by one single-family housing unit. In the case of Auburn, 1 EDU is a single family home having 2.3 people per single family home (developed from 2012 City of Auburn census data) and each person is assumed to generate 80 gallons of wastewater per day (developed from WWTP flow records). One EDU also assumes wastewater strength of around 300 mg/L of biochemical oxygen demand which is a measure of the organic content of the water. EDU factors are assigned to customer classifications based on their relative flow and waste-strength compared to those EDU numbers. The City has 14 types of residential classifications (single family home, apartment, duplex, etc.) and 30 non-residential classifications (office, restaurant, car wash, etc.). classification list and EDU factors were initially established in 1995 and have been modified slightly at each rate study. The EDU factors were originally based on guidelines from the State Water Resources Control Board Revenue Program Guidelines, last updated in March 1998. The cities of Roseville, SPMUD, Placer County, Folsom, and Sacramento all utilize an EDU basis for billing their customers.

Since around 2010 water providers have been required to install water meters and bill customers based on consumption of their <u>potable</u> water usage. Some cities have also charged wastewater rates based on water consumption (typically February meter data is used when outdoor water usage is minimized). The City of Davis charges all its customers based on the previous year's water meter data. The Cities of Woodland and Grass Valley charge its non-residential customers based on water meter data and residential customers are charged a flat rate. Many cities in the Bay Area utilize this approach using the water meter data. About half the cities in California utilize a flat rate EDU billing methodology and the other half base sewer rates on water meter records.

The City could utilize any of these approaches for billing its customers. However none are perfect. The flat rate "EDU methodology" has worked well for the City, is commonly used; allows the users to know their annual costs for sewer service, provides a stable revenue base, and represents the typical water use in Auburn. Most of the wastewater in town is generated by single family homes and the EDU calculation does not allow the City to distinguish between one or several people generating wastewater in each house. In contrast, utilizing winter water meter data to base wastewater rates is a better indication of actual water use, but is complicated to determine and implement. Each year the City would need to receive previous year's winter meter data from PCWA and recalculate each user's monthly wastewater rate. Residential water meters include both indoor

and outdoor water use. So, as an example, households that watered their yards this last February because of the drought would see an increase in their next year's sewer rates.

If the City Council desires to move to a consumption-based billing system (using on PCWA water meter data), the following actions would be required which would take between 12 – 18 months:

- 1) Revise the sewer rate study to reflect water meter data and a revised rate structure.
- 2) Conduct a public outreach campaign to educate residents and businesses on the new sewer billing methodology.
- 3) Complete Proposition 218 hearings for the new rate structure
- 4) Develop an agreement with PCWA for receiving water meter data annually.
- 5) Purchase and deploy a new software billing system for receiving customer data, meter data, and billing formulas.
- 6) Determine whether the City should bill its customers directly or have fees continue to be collected through the County tax roll

If desired, Staff could determine the additional costs and timeframes for moving to consumption based billing and report back to the Council at some point in the future.

Review of Restaurant EDU Factor

For this update to the sewer rates, staff recommends to continue to utilize the EDU methodology for the reasons described above. However, the sewer rate study recommends a modification to the current rate structure for restaurants that was adopted in 2007 to reflect recent industry practices for EDU calculation. This restaurant rate is similar to that used by SPMUD, Roseville, and Sacramento. Revised EDU's assigned to non-residential uses are shown below.

		Proposed	Old
***	Restaurant	2.0 per 1,000 sq. ft.	2.5 per 1,000 sq. ft.
**	Restaurant Take Out Only	1.7 per 1,000 sq. ft.	2.0 per 1,000 sq. ft.

This change reduces restaurant revenue received and, as a result, shifts some costs over to the other categories. For instance, single family homes rates are impacted by this change by about 25 cents per month.

Monthly Sewer Use Charges

The projected increase in sewer rates is dependent on the availability of reserves in the City's Sewer Enterprise Fund and how much of the reserves the City decides to use toward the upgrade project. As a means to minimize the initial increase to monthly sewer rates while maintaining sufficient reserves in the City's Sewer Fund, staff recommends using \$5.1 million of the \$7.6 million currently held in reserves. The fund will maintain a \$1 million in operating reserves towards unanticipated capital requirements, higher-than-expected increases in operating costs and future regulatory permit requirements. The projected total increase to the City's sewer rates are \$5.63 per month per EDU making the sewer rates \$67.01 per month per EDU. The rate study recommends a five year rate schedule for fiscal year 2014/15 through fiscal year 2018-19 as shown in Attachment A.

Capital Projects

The projected increase in the sewer rates will fund the Oxidation Ditch Improvement Project and the City's contribution to the Regional Sewer Common Pipeline Project, as well as other on-going improvements to lift stations and collection system projects and operating expenses. The following chart shows the components of the projected monthly sewer rate and how the use of the recommended reserve funding affects the monthly sewer rate.

Breakdown of Calculated Rate by Cost Component for FY 2014-15

	FY 2014-15 Monthly Rate/EDU <u>Equivalent</u>
Operations & Maintenance	\$31.61
Existing Debt Service	\$10.39
General Reserve	\$2.17
Subtotal	\$44.16
Capital	
Depreciation/Capital Projects	\$17.46
Oxidation Ditch Project - Debt Service [1] [3]	\$6.44
Regional Pipeline Contribution - Debt Service [2] [3]	\$3.44
Subtotal	\$71.50
Reserve Fund Drawdown- Debt Service Equivalent [4]	(\$4.49)
Total	\$67.01
Total Estimated EDUs	6,849

- [1] Assumed Project Cost \$6.9M plus \$400K for other Capital Projects
- [2] Assumed Project Cost \$3.9M
- [3] Assumes loan terms of 30 years and 5% interest rate
- [4] Assumes Reserve Fund drawdown of \$5.1M

The Regional Sewer Common Pipeline Project contributes to \$3.44 per month, but collectively with the use of reserves and the other capital projects, the total rate is recommended to increase by \$5.63. The Regional Sewer Common Pipeline Project is not eligible for State Revolving Loan Fund monies as the State only funds whole projects and not portions of projects.

Options for Low Income Individuals

State law (Proposition 218) requires each person's rates to be proportionate to the cost of serving them, so it is not currently legally feasible to offer discounted rates to fixed income customers. For the City to fund a discount for low-income individuals the City has the following options:

- 1) Obtain 2/3 voter approval of the practice, treating the portion of rates which funds the subsidy as a special tax; or
- 2) Fund it from general fund or other discretionary revenues; or
- 3) Don't do it

However, in light of the significant challenges faced by the City General Fund, or any other City source, option 2 is not viable and Staff would not recommend subsidies at this time. With respect to Option 1, a general tax can only be levied be considered at the time of a City Council election. In other words, the first consideration would be in November 2014. Given the need to meet all the necessary election code deadlines, the City Council would need to give staff direction no later than June 2, 2014.

Proposition 218 Process

State law (Proposition 218) requires that each property owner that is receiving sewer service from the City be noticed 45 days prior to the public hearing. A draft notice is attached to the staff report as Attachment B. The notice will be mailed to all property owners that are connected to City Sewer. The schedule for adoption of the Sewer Rate Study and implementation of the Sewer Service Charges is as follows:

April 28, 2014 - Introduction of Sewer Rate Study Update

April 29, 2014 – Mail Public Notice to Sewer Customers

June 23, 2014 – Public Hearing and Sewer Rate Adoption

June 23, 2014 - Public Hearing to Place Sewer Service use Charges on County of Placer Tax Rolls

Enterprise Fund

The Sewer Fund is an enterprise fund in the City's Annual Budget. An enterprise fund is a fund established to account for operations that are financed and operated in a manner similar to private business enterprises, where the intent of the governing body is that the costs of providing goods and services to the general public on a continuing basis be financed or recovered primarily through user charges.

Alternatives Available to Council; Implications of Alternatives

- 1. Proceed with the Staff Recommendation Scenario 1 Most Prudent Monthly Rate: Assumes \$5.1M in Reserve Drawdown, \$6.1M in bond financing, defers a portion of the capital projects to collection system until 2016 or later, revises the EDU for restaurants, provides for \$175,000 in additional operational costs = \$5.63/month increase
- 2. Scenario 2 Lowest Possible Rate: Assumes approximately \$5.3M in Reserve Drawdown, Shifts or defers capital improvement program, provides for \$175,000 in additional operational costs, no change in restaurant EDUs = \$5.49/month increase
- 3. Scenario 3 Least Risk Rate: Assumes \$5.1 M in Reserve Drawdown, Capital Improvements programmed fully, provides for \$175,000 in additional operational costs, no change to Restaurant EDU = \$7.62/month increase.
- 4. Direct staff to continue with Staff Recommendation, but in addition, return to Council prior to July 2015 with costs associated with changing the methodology of billing sewer to consumption based.

5. Do not proceed with staff recommendation and provide specific direction the Interim City Manager how to proceed in funding the wastewater operation sans a dedicated revenue source.

Fiscal Impact

At the point of approval, the Sewer Rate will fund the Capital and Operational needs for the Sewer Fund over the next 5 years. The rate, if approved will fund approximately \$3.0 million in annual operating costs and \$3.0 million annually in capital costs including depreciation and existing debt and estimated future debt service, adjusted for inflation until 2018/19. After 2018/19 no further rate increases are scheduled and any future rate increases will require the City Council to undertake an updated rate study. The recommended increases to the sewer use charges are necessary to provide funding for such improvements as the Oxidation Ditch Improvement Project, the City's contribution to the Regional Sewer Common Pipeline Project, as well as other on-going improvements to lift stations and collection system projects, annual operating costs and ongoing future capital requirements. Absent increases to the use charges and connection fees, the City would be unable to perform necessary facility improvements, ultimately exposing the City to financial sanctions. Additionally, existing Sewer Fund reserves will be eroded by ongoing operating and capital costs, potentially rendering the Sewer Fund insolvent.

Attachments:

Attachment A: Draft Proposition 218 Notice

Attachment B: Draft 2014 Sewer Rate Study Update

Attachment C: 2007 Sewer Rate Study



SPECIAL NOTICE

A Special Legal Notice in Conformance with Proposition 218

ON JUNE 23, 2014 AT 6:00 P.M. IN THE CITY COUNCIL CHAMBERS AT 1225 LINCOLN WAY, AUBURN, CA 95603 THE CITY COUNCIL WILL HOLD A PUBLIC HEARING ON SEWER RATE INCREASES

Introduction

The City of Auburn is proposing to increase sewer rates to maintain, repair and upgrade the sewer system needed for proper operations and regulatory compliance, and to meet operational and capital requirements. The rate increase, proposed to be a five year rate schedule is depicted in this notice for your reference.

This Notice of Public Hearing provides information regarding proposed rate adjustments to property owners served by the City of Auburn pursuant to the requirements of Proposition 218. The proposed rate adjustments will be presented to the City Council for adoption on June 23, 2014 at 6:00 p.m. in the City Council Chambers. This Notice also provides information on how rates are calculated, the reasons for the required rate adjustments, and how customers can file a protest against the proposed rate adjustments.

The City hired an independent consulting firm (G Aronow Consulting) to provide a comprehensive rate analysis that provides sufficient revenue to meet operating and capital improvement needs for the sewer utility.

Background

The City's sewer systems are operated in conformance with Federal, State and Local regulations and permits. To meet current and anticipated regulatory requirements the City's sewer infrastructure must be upgraded and funds established to replace or repair assets used in providing these essential services in a safe, healthy and reliable manor.

Sewer rates are the primary source of revenue to operate the City's sewer systems; reliance on General Fund subsidies is discouraged. These rates generate the revenue to operate the systems and invest in necessary upgrades. The City last conducted a sewer rate study in 2007. The proposed increases are necessary to pay for (i) new state and federal regulatory requirements for the protection of the environment, (ii) repair and replacement of aging sewer lines and treatment plant improvements, (iii) purchase of capacity in the Regional Sewer Common Pipeline Project and (iv) inflation since 2013.

CAPITAL PROJECTS

The following are the main projects that the City will be completing over the next five years: Regional Sewer Common Pipeline Project, New Oxidation Ditch at the Wastewater Treatment Plant, Lift Station Upgrades and Sewer Collection System upgrades.

SEWER SERVICE CHARGES

The proposed sewer service charges are for fiscal year 2014-15 and further increases are proposed for each year through 2018-19. The following are the basic rates for FY 2014-15 for residential customers who do not require a lift station:

Proposed Monthly Charge

Single Family Home (No' Lift Station) \$67.01

Duplex/Triplex/Condo (Per Dwelling Unit) \$51.60

Multiple Dwelling (Apartments (Per Dwelling Unit) \$47.58

In Fiscal Year 2015-16 and future years, the City Council may increase the proposed rates for inflation by the change in the Consumer Price Index, but capped at 5% per year.

City of Auburn
Sewer Enterprise Fund
Current vs. Calculated Rate

Lurrent vs. Calculated Nate		EDU	٣.	irrent				Ca	Icula	ted Ra	tes			
		Factor		Rate	201	4 15	201	5-16	201		2017	' 18	2018	3-19
Residential										Mara je s		1		
Single Family	per unit	1.00	\$	61.38	\$	67.01	\$	69.81	\$	72.56	\$	75.49	\$	78.62
Single Family w/ 1 Sewer Lift Station	per unit	1 2 2	\$	74.88	\$	81.75	\$	85.16	\$	88.52	5	92.09	\$	95.91
Single Family w/2 Sewer Lift Stations	per unit	1.43	\$	87.77	\$	95.83	\$	99.83	\$:	103.75	\$ 1	07.95	\$ 1	12.42
Duplex/Triplex/Condo/Townhome	per unit	0.77	\$	47 26	\$	51.60	\$	53 75	\$	55.87	\$	58.12	\$	60.53
Duplex/Triplex/Condo/Townhome w/ 1 Sewer Lift Station	per unit	0.99	\$	60.77	5	66.35	\$	69.12	\$	71.84	\$	74.74	\$	77.84
Duplex/Triplex/Condo/Townhome w/ 2 Sewer Lift Station	per unit	1.20	\$	73.66	\$	80.42	\$	83.78	\$	87.07	\$	90.59	\$	94.35
Multiple Dwelling	per unit	0.71	\$	43.58	\$	47.58	\$	49.57	\$	51.52	\$	53.60	\$	55.82
Multiple Dwelling w/ 1 Sewer Lift Station	per unit	0.99	\$	60.77	\$	66.35	\$	69.12	\$	71.84	\$	74.74	\$	77.84
Single Family w/ CDBG Reduction*	per unit	0 79	\$	48.38	\$	52 82	\$	55.02	\$	57.19	\$	59.50	\$	61.97
Single Family w/ 1 Sewer Lift Station w/ CDBG Reduction*	per unit	1.01	\$	61.88	5	67.56	\$	70 38	\$	73 15	\$	76.10	\$	79.26
Single Family w/ 2 Sewer Lift Station w/ CDBG Reduction*	per unit	1.22	\$	74.77	7 \$	81.63	\$	85.04	\$	88.39	\$	91.96	5	95.7
Duplex/Triplex/Condo/Townhome w/ CDBG Reduction*	per unit	0.56	\$	34.26	5 \$	37 41	\$	38.97	\$	40.50	\$	42.14	\$	43.88
Single Family w/o CDBG & w/ CDBG Reduction*	per unit	1.79	\$	109.76	5 \$	119.84	\$	124.84	\$	129.75	\$	134.99	\$	140.59
Multiple Dwelling w/ CDBG Reduction*	per unit	0.50	\$	30.5	3 \$	33 39	\$	34 78	3 \$	36 19	\$	37.61		39.1
*Properties receive a \$13/month reduction from previously receive	d Community Develor	ment Block	k Gra	nt (CDBC	a) fund	ds Currer	nt pro	gram fu	nding	ends in l	Y 2019	9/2020		
Non-Residential														
Auto Dealership	per 1,000 SF	0.20	\$	12.2	8 5	1340	\$	13.9	5 \$	14.5	1 \$	15.10	\$ 0	15.7
Bank/Financial Institution	per 1,000 SF	0.30	\$	18.4	1 \$	20.10	\$	20.9	4 \$	21.7	7 \$	22.65	5 \$	23.5
Bakery	per 1,000 SF	1 70	\$	104.3	5 \$	113.97	2 \$	118.6	8 \$	123.3	5 \$	128.33	3 \$	1336
Bar	per 1,000 SF	0 70	\$	42.9	7 \$	46.9	1 \$	48 8	7 5	50.7	9 \$	52.84	4 \$	55.0
Dry Cleaner	per 1,000 SF	1 70	\$	104 3	5 5	5 113.93	2 \$	118.6	8 \$	123.3	5 \$	128.3	3 \$	1,33.€
Hall, Lodge, Auditorium	per 1,000 SF	0.30	\$	18.4	1 5	\$ 20.1	0 \$	20.9	4 \$	21.7	7 \$	22.6	5 \$	23.5
Health Studio, Gym	per 1,000 SF	0.30	9	18.4	1 :	\$ 201	0 \$	20.9	4 \$	21.7	7 \$	22.6	5 \$	23.5
Market w/ Disposal Unit	per 1,000 SF	1.00	\$	61.3	88	\$ 67.1	0 \$	69.8	1 \$	72.5	6 \$	75.4	9 \$	78.
Market w/o Disposal Unit	per 1,000 SF	0.20			28	\$ 13.4	0 \$	139	6 \$	14.5	1 \$	15.1	.0 \$	15.
Medical/Dental Office	per 1,000 SF	0.40	-			\$ 26.8	1 5	5 27.9	92 9	29.0	2 \$	30.2	0 \$	31.
Business Office	per 1,000 SF	0 20		5 12	28	s 13.4	0 9	5 13.9	96 \$	5 14.5	1 \$	15.1	0 \$	15.
Place of Worship	per 1,000 SF	0 20		\$ 12.		\$ 13.4	0 :	\$ 13.9	96 9	5 14.5	51 \$	15.1	10 \$	15.
Public Agency	per 1,000 SF	0.60		s 36.	83	\$ 402	1 :	5 41.	39	\$ 43.5	53 \$	45.2	29 \$	47.
Mortuary	per Slumber Ro			\$ 79		\$ 87.1	12	\$ 90.	75	s 94.	32 \$	98.1	14 \$	102
Restaurant	per 1,000 SF	2.00		\$ 153	45	\$ 134.0	3	\$ 139.	62	\$ 145.	12 \$	150.9	38 5	5 157
Restaurant, Take Out Only	per 1,000 SF	1.70		S 122		\$ 113.9		S 118	68	S 123.	35 \$	128.3	33 5	\$ 133.
Retail	per 1,000 SF	0.20		\$ 12		\$ 13.4		5 13.	96	s 14.	51 9	\$ 15.:	10 5	\$ 15
Warehouse	per 1,000 SF	0.10			14	\$ 6.			98	s 7.	26 5	\$ 7.5	55 5	\$ 7
Used Car Lot	per 10 fixture				.28	\$ 13.		\$ 13		5 14		S 15.	10	\$ 15
Car Wash	per Stall	0.70			.97	\$ 46.		\$ 48		\$ 50		\$ 52.		\$ 55
Barber/Beauty Shop	per stati per chair	0.70			.28	\$ 13		\$ 13		\$ 14		\$ 15.		\$ 15
	per clian per sleeping r				.41	\$ 20.			.94			\$ 22.		\$ 23
Hotel, Motel	per steeping i	0.50			.69	\$ 33.			91			\$ 37.		\$ 39
Self Service Laundry	may Day	0.10			.14		.70		.98					5 7
Garage	per Bay per Bed	0.10			3.41	\$ 20			.94					\$ 23
Rest Home/Boarding House					1.38		.10		.81					\$ 78
School	Per 100 Stude				5.14		.70		5.98		.26			s 7
Service Station	Per Pump	0.1			3.44	-	.10		0.94		.77		.65	s 2:
Theatre	Per 100 Seats			-								5 362		5 37
Brewery	per 1,000 SF	4.8	U	\$ 29	4 62	\$ 321	6/	\$ 335	ง กล	\$ 348	.28	⇒ 302		23/

Action

In compliance with Proposition 218, the City of Auburn is hereby notifying all affected property owners and customers of the proposed sewer rate increase effective July 1, 2014, as follows:

- ✓ Affected property owners and other customers are notified by mail about the proposed rate increase. This notice outlines the public protest process (see below) and publishes the public hearing date and time.
- ✓ If written protests are presented by a majority of affected property owners prior to the close of the public hearing, the proposed rate increase will be rejected.
- ✓ This notice provides information relating to the proposed rate increase.

Process

If you wish to oppose the proposed sewer rate increase, your protest must be submitted in writing to be considered, even if you plan to attend the public hearing. If written protests are submitted by a majority of affected property owners, the proposed sewer rate increase will not be imposed. Written protest can be submitted to the City Council prior to the close of the public hearing. Written protests must contain a description of the property, including the parcel number. Please indicate you are protesting and send your written protest to: City Clerk, City of Auburn, 1225 Lincoln Way, Auburn, CA 95603.

Please note that the City of Auburn requires that rate increase protests be submitted in writing, and that **email protests will not be accepted.** If you have any questions about this notice, please call Bernie Schroeder, Public Works Director, City of Auburn at 530-823-4211 x 144.



Memorandum

To: Bernie Schroeder, City of Auburn

Megan Siren, City of Auburn

From: Georgette Aronow

CC: Dan Rich, Nexgen

Date: April 7, 2014, revised April 24, 2014

RE: City of Auburn Sewer Rate Update, DRAFT

This memo provides an overview of the updated sewer rate analysis for the City of Auburn that was last done in April 2007. With this current analysis, rates have been updated to reflect current assumptions, detailed below, and have been projected for the next five years. The following describes the major assumptions and updates:

- Updated revenue and expense data for the Sewer Enterprise Fund. The budgeted 2013-14 sewer expenses are used as the baseline for projecting costs over the next five years.
- Updated customer account information (number of customers and billing units).
- Updated schedule of capital improvement projects (CIP) over the next ten years including two major projects, the monetary contribution toward the Regional Pipeline project and the Oxidation Ditch project.
- Assumptions regarding how the City will likely fund the major CIP projects (contribution to Regional Pipeline and Oxidation Ditch improvements) which include a combination of financing/loans and pay-as-you-go (PAYG) funding.

The following describes the key tables and rate calculations.

Table 1: Rate Summary - Current vs. Calculated Rates

Table 1 summarizes the calculated rates and also provides the current rates for the customer categories. Rates are projected through 2018-19.

Capital project costs, i.e., the Regional Contribution and Oxidation Ditch projects, which are scheduled to occur in the next two years, are largely driving the need for rate increases.

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Table 2: Historical Summary of Revenues and Expenses

Table 2 shows the historical sewer fund revenues and expenses through 2012-13. The budgeted revenues and expenses are shown for 2013-14. The budgeted 2013-14 expenses are used as the basis from which future year expenses are projected.

Table 3: Summary of Wastewater User Characteristics

The wastewater customers and user characteristics are summarized in Table 3. The City bills its sewer service charge annually with the property tax assessment rolls. The City charges residential parcels based on the number of units associated with each parcel. However, the basis for charge for non-residential uses varies from a per square foot (sqft) basis, to students, to chairs, etc. Customer accounts and units were updated based on current information.

The wastewater characteristics are based on previous rate studies, but were reviewed to assess whether they continue to reflect industry standards for flow and strength, as incorporated by the EDU Factor shown on Table 3. All but the Restaurant and Restaurant Take Out EDU Factors were found to be equitable representations for wastewater flow and strength. Restaurants and Take Out Restaurants' EDU factors were lowered from 2.5 and 2.0 to 2.0 and 1.7 respectively. These reduced characteristics are more consistent with industry standards for restaurant uses today.

It should be clarified that in some cases, the EDU factor not only represents the flow/strength factors, but also may represent additional allocations, such as in the case of a residential parcel associated with a lift station(s) or where there is a CDBG designation.

Table 4: Summary of Projected Expenses

Table 4 summarizes the projected expenses on an annual basis through 2018-19. The annual cost adjustment factors are also noted at the bottom of the table.

Salaries and Benefits are assumed to increase by approximately 5% a year and all other operating costs are assumed to increase by approximately 3% a year. However, in FY14-15, an additional \$175,000 in salaries and benefits is assumed to fill positions that were previously eliminated due to lack of funding, but that are deemed necessary.

The capital project expenses reflect significant costs over the next three to four years, due to the Regional Sewer contribution and the Oxidation Ditch project as well as ongoing annual capital project improvements. The projected annual capital expenses are detailed in the appendix, Table A-1. It is assumed that these capital project expenses will be funded by a combination of current capital reserves/set-asides, rate increases, and financing/loan.

Table 5: Project Loan/Bond Sizing and Debt Service

The City does not have the capacity to fully fund the two major capital projects out of reserves as they total a combined \$10.8 million, plus fund the nearly \$1.5 to \$2 million in annual capital projects. The City has approximately \$5.1 million in capital reserves to apply towards these projects. To pay

the remaining solely via rates greatly increases monthly rates, so it is assumed that the City will borrow money or finance a portion of the project costs for the major improvements.

Table 5 calculates the annual debt service for an assumed \$6.1 million loan. Conventional bond terms are assumed, however, the City may pursue CWSRF funding for the Oxidation Ditch Project. Therefore, the loan terms assumed in the rate analysis may be conservative, but prudent since all options are still currently being explored.

Table 6: Summary of Annual Revenue Requirement through FY 2018-19

Table 6 brings forward the projected annual expenses from Table 4 and includes offsetting revenues for a projection of the total annual revenue requirement necessary from annual sewer rate revenues. Offsetting revenues are based on other non-sales related revenue from the current budget year. One of these line items is Sewer Connection Fee revenue of \$36,000, representing approximately 11 new connections a year.

Table 7: Projected Cash Flow

Table 7 shows the projected cash flow for the 5 year period FY 2014-15 through FY 2018-19. The revenues, including the projected sewer rate revenues, are shown at the top. Below the total revenues, the projected expenses are shown. Net revenue, before debt service and depreciation/facility replacement are shown next.

The debt service coverage ratio is calculated by dividing the net revenues by the estimated debt service. Coverage ratios are relatively high at approximately 1.5x debt service.

Table 8: Capital Improvement Project (CIP) Pro Forma Cash Flow

Table 8 shows a projected cash flow for capital improvement fund. Revenues include transfers from the operating fund (Table 7) to the capital fund for depreciation and for capital projects, interest income, as well as bond/loan proceeds in years 2 and 3.

Expenses are based on the City's ten year projection of capital projects shown in Table A-1.

Beginning and ending balances are shown at the bottom of the table. As mentioned above, it is assumed that approximately \$5.1 million of current reserves (beginning balance) is applied toward the expenses over the first few years. After year 5, FY 2018-19, it is projected that the City will begin to once again accumulate capital reserves that can be applied to future major capital improvements to the sewer system.

Table 9: Projected Costs and Distribution between Collection and Treatment System

Table 9 provides the allocation of the projected costs (from Table 6) between collection and treatment. This calculation is repeated for each of the fiscal years through 2018-19. However, only the 2014-15 fiscal year is shown.

Page 4

Table 9 also shows the cost adjustment factors used to project future costs. Salaries and benefits are projected to increase by 5% per year, all other costs, excluding debt service which are typically fixed or have a set schedule, are projected to increase by 3% per year.

CIP expenses are an exception however. The FY 2014-15 CIP cost allocation in rates is assumed to be \$970,000, which is then escalated by 12% for FY15-16 and 10% per year thereafter. The cost allocation for FY 2014-15 is less than the projected costs for that year, as shown in Table 8 and based on Table A-1, under expenses. A lower starting assumption for CIP costs in the revenue requirement was used to minimize the rate impacts in the earlier years of the projection period. It is assumed that the additional capital costs will be funded through the loan/financing as opposed to pay-as-you go funding.

Table 10: Unit Cost Determination

The distributed annual revenue requirement from Table 9 is brought forward into Table 10. These costs are allocated to flow and infiltration (I&I). These unit allocations are the same assumptions that were used in the previous sewer rate analysis.

The projected costs are multiplied by the flow and I&I unit allocations and then divided by the total annual capacity amounts from Table 3. The result is a unit cost per million gallons of flow and I&I.

Table 11: Allocation of Costs to Flow, BOD, and SS by Customer Category

In Table 11, the unit costs, calculated in Table 10, are used to allocate costs back to customer categories based on the customer group's estimated flow. For example, for the single-family customer group, the collection (flow) unit cost of \$1,585.01 is multiplied times 181.63 MG/yr of flow, resulting in \$287,881 costs being allocated to this customer group for this category. The total cost allocated to single-family residential users is estimated at \$2.1 million approximately. This calculation is repeated for each cost type and customer type, so that the total costs for the fiscal year are fully allocated.

Table 12: Detailed Sewer Rate Calculation

Table 12 shows the calculation of the monthly sewer rate for residential and non-residential customers. To calculate the rates, the allocated cost from Table 11 is brought forward and divided by the number of billing units to get the annual cost allocated. The annual cost is divided by 12 to determine the monthly charge. The basis of the charge whether residential unit, square feet, beds, etc. is also shown.

Appendix A: Sewer Program Projects

Table A-1 shows the historical and projected capital improvement projects for the sewer fund through FY 2023-24. The project costs total approximately \$28.7 million from FY 2013-14 through FY 2023-24.

Attachment B

Table 1 City of Auburn Sewer Enterprise Fund Rate Summary - Current vs. Calculated Rates

		Sewer	Current			culated Rat			Avg. Annua
		Unit	Rate	2014-15	2015-16	2016-17	2017-18	2018-19	% Increase
tesidential									
Single Family	per Unit	1 00	\$61.38	\$67.01	\$69.81	\$72 56	\$75 49	\$78 62	4 04%
Multiple Dwelling	per Unit	0.71	\$43.58	\$47.58	\$49 57	\$51 52	\$53 60	\$55.82	4.04%
Duplex / Triplex / Condo / Townhome	per Unit	0.77	\$47.26	\$51.60	\$53.75	\$55.87	\$58 12	\$60.53	4 04%
Duplex/Triplex/Condo/Townhome W/2 Lift Station	per Unit	1 20	\$73.66	\$80.42	\$83.78	\$87 07	\$90.59	\$94.35	4.04%
Duplex/Triplex/Condo/Townhome W/1 Lift Stations	per Unit	0 99	\$60 77	\$66.35	\$69 12	\$71.84	\$74 74	\$77.84	4.049
Multiple Dwelling W/ Lift Station	per Unit	0.99	\$60 77	\$66.35	\$69.12	\$71.84	\$74.74	\$77.84	4.049
DBG \$13 00/Mo_Reduction	per Unit	0.79	\$48.38	\$52.82	\$55.02	\$57.19	\$59 50	\$61 97	4.049
CDBG - Duplex /Triplex/Condo/ Townhome	per Unit	0.56	\$34.26	\$37.41	\$38 97	\$40.50	\$42 14	\$43.88	4.04
CDBG 1SFD W/DISC 1SFD W/O DISC	per Unit	1.79	\$109.76	\$119.84	\$124 84	\$129.75	\$134 99	\$140.59	4.04
CDBG \$13.00-MO W/ 2 Lift Stations	per Unit	1.22	\$74.77	\$81,63	\$85 04	\$88.39	\$91.96	\$95 77	4 04
CDBG \$13.00-/MO W/Lift Station	per Unit	1.01	\$61.88	\$67.56	\$70.38	\$73.15	\$76 10	\$79.26	4.04
CDBG 1 APT W/DISC	per Unit	0.50	\$30.58	\$33.39	\$34.78	\$36 15	\$37.61	\$39.17	4.04
SFD W/2 Lift Stations	per Unit	1.43	\$87.77	\$95.83	\$99.83	\$103.75	\$107.95	\$112.42	4.04
SFD with Sewer Lift Station	per Unit	1.22	\$74.88	\$81.75	\$85 16	\$88 52	\$92 09	\$95.91	4.04
Non-Residential									
Auto Dealership	per 1,000 SF	0.20	\$12.28	\$13.40	\$13.96	\$14.51	\$15 10	\$15.72	4.0
Bank/Financial Inst.	per 1,000 SF	0.30	\$18.41	\$20.10	\$20.94	\$21.77	\$22.65	\$23.59	4 0
Bakery	per 1,000 SF	1.70	\$104.35	\$113 92	\$118.68	\$123.35	\$128.33	\$133 65	4.0
Bar	per 1,000 SF	0.70	\$42.97	\$46 91	\$48.87	\$50 79	\$52.84	\$55 03	4.0
Dry Cleaner	per 1,000 SF	1 70	\$104.35	\$113.92	\$118 68	\$123.35	\$128.33	\$133.65	4.0
Hall, Lodge, Auditorium	per 1,000 SF	0.30		\$20.10	\$20 94	\$21.77	\$22.65	\$23.59	4.0
Health Studio. Gym	per 1,000 SF	0.30		\$20.10	\$20.94	\$21.77	\$22 65	\$23 59	4.0
Market w/Disposal Unit	per 1,000 SF	1.00		\$67.01	\$69.81	\$72.56	\$75.49	\$78.62	4 0
Market w/o Disposal Unit	per 1,000 SF	0.20		\$13.40	\$13.96	\$14.51	\$15.10	\$15.72	4.0
Medical/Dental Office	per 1,000 SF	0.40		\$26.81	\$27.92	\$29.02	\$30.20	\$31.45	4.0
Business Office	per 1,000 SF	0.20		\$13.40	\$13.96		\$15.10	\$15.72	
	per 1,000 SF	0 20		\$13.40	\$13.96		\$15.10	\$15.72	
Place of Workship	per 1,000 SF	0.60		\$40.21	\$41.89		\$45.29	\$47.17	
Public Agency				\$87.12			\$98.14	\$102.21	
Mortuary	per Slumber Room	1.3i 2.0i		\$134.03			\$150.98	\$157.24	
Restaurant	per 1,000 SF			\$134.03				\$137.24	
Restaurant, Take-out Only	per 1,000 SF	1.7					\$120.33		
Retail	per 1,000 SF	0.2		\$13.40					
Warehouse	per 1,000 SF	0.1		\$6.70					
Used Car Lot	per 10 fixtures	0.2		\$13.40					
Car Wash	per Stall	0.7		\$46.91					
Barber/Beauty Shop	per Chair	0.2		\$13.40					
Hotel, Motel	per Sleeping Roor			\$20 10					
Self Service Laundry	per Machine	0.5		\$33.5					
Garage	per Bay	0 -		\$6.7					
Rest Home/Boarding House	per Bed	0.0		\$20.1					
School	per 100 Students		00 \$61.38	\$67.0					
Service Station	per Pump	0	10 \$6.14	\$6.7					
Theatre	per 100 Seats	_	30 \$18.41	\$20 1					
Brewery	per 1,000 SF	4	80 \$294.62						
UPPR - Multi User	per EDU	1	00 \$61.38	\$67.0	1 \$69.8	31 \$72.5	6 \$75.4	9 \$78.6	32

Table 2 City of Auburn Sewer Enterprise Fund Summary of Revenues and Expenses

		Fiscal Year End	ed June 30		A	vg. Annual
		Actual			Budgeted	% Change
	2010	2011	2012	2013	2014	2010-2014
REVENUES						
Sewer Service Charges	\$4,606,461	\$4,581,146	\$4,802,110	\$5,019,446	\$5,069,872	2.43%
Sewer Connection Fees	\$29,081	\$54,707	\$97,476	\$369,225	\$36,000	5.48%
Interest Income	\$84,169	\$88,527	\$97,476	\$57,493	\$75,000	(2.84%)
Other Revenues		\$1,050	\$1,553		\$0	
Debt Proceeds					\$0	
Subtotal Revenues	\$4,719,711	\$4,725,430	\$4,998,614	\$5,446,163	\$5,180,872	2.36%
EXPENSES						
Operating Expenses						
Salaries and benefits	\$223,404	\$262,793	\$347,932	\$386,561	\$379,596	14.17%
Services and Supplies	\$3,260, 7 87	\$2,563,645	\$2,498,331	\$2,481,746	\$1,924,000	(12.36%)
Maintenance					\$41,000	
Capital Projects	\$387,947	\$402,670	\$978,732	\$1,054,472	\$1,525,000	40.81%
Depreciation	\$374, 797	\$430,764	\$432,483	\$451,257	\$451,257	4.75%
Subtotal Expenses	\$4,246,936	\$3,659,872	\$4,257,477	\$4,374,035	\$4,320,853	0.43%
Net Operating Revenues	\$472,775	\$1,065,557	\$741,137	\$1,072,128	\$860,019	16.14%
Debt Service						
Current Debt Service	\$155,731	\$47,040	\$65,583	\$725,499	\$853,734	53.02%
Debt Coverage Ratio	3.04	22.65	11.30	1.48	1.01	
Subtotal Expenses	\$4,402,667	\$3,706,912	\$4,323,059	\$5,099,534	\$5,174,587	4.12%
Net Op. Rev after D/S	\$317,044	\$1,018,517	\$675,554	\$346,629	\$6,285	

"hist_budget"

Source: City of Auburn

Table 3
City of Auburn
Sewer Enterprise Fund
Summary of Wastewater User Characteristics

	_	Parcel			}	Wastewater				Annual Ca	
Customer	Basis of	Units/	Billing			ADWF/User GPD	BOD MG/L	SS	Flow MG	BOD	SS Lbs/Year
Category	Charge A	(A)	Units	FACTO	ן נון אכ	GPD (B)	(C)	MG/L		+	Lbs/Year
sidential		(4)			1	(8)	(C)	(D)	(V)a(E)x300	(LINTERNA SE SA	(M)n(G)x(K)x8 35
		2011	2.661	1	1.00	18	,		181.63		
gle Family	per Unit	2.644		1	0.71				72.35	-	-
Itiple Dwetling	per Unit	124	1,493			13			5	*	-
plex / Triplex / Condo / Townhome	per Unit	446	617	1	0.77	14			32.43		-
plex/Triplex/Condo/Townhome W/2 Lift Station	per Unit	31	31	1	1.20	22			2.54		-
plex/Triplex/Condo/Townhome W/1 Lift Stations	per Unit	23	23	1	0 99	18			1.55		-
ultiple Dwelling W/ Lift Station	per Unit	1		. 1	0 99	18	-		0 07		-
DBG \$13.00/Mo_Reduction	per Unit	109	10	1	0.79	14	7		5 8€		-
DBG - Duplex /Triplex/Condo/ Townhome	per Unit	15	1	5	0 56	10			0.57	٠ -	
DBG 1SFD W/DISC 1SFD W/O DISC	per Unit	1		1	1.79	33	14		0.12		
DBG \$13 00-MO W/ 2 Lift Stations	per Unit	2		2	1 22	22	8.		0.17	, .	
DBG \$13.00-/MO W/Lift Station	per Unit	6	1	6	1.01	18	39		0.4		
DBG 1 APT W/DISC	per Unit	1		1	0.50	1 9	93		0.03	3	-
FD W/2 Lift Stations	per Unit	393	39	3	1 43	21	57		38.3	5	_
FD with Sewer Lift Station	per Unit	616	61	7	1 22	2	28		51.3	В	-
ubtotal - Residential	p 0. 0	4,412							387.4		-
_16.61			1								
on-Residential uto Dealership	per 1.000 SF	2	3.8	05	0 20		37		0.0	c	
		11			0.30	1	56				-
lank/Financial Inst.	per 1,000 SF								0.4		-
lakery	per 1,000 SF				1.70	1	18		12		-
Bar	per 1,000 SF	10			0.70	1	31		0.4		-
Ory Cleaner	per 1,000 SF		3 13.	- 1	1.70	. 1	118		1 €	_	*
Hall, Lodge, Auditorium	per 1,000 SF		8 11	1	0.30	-	56		0.2		-
Health Studio, Gym	per 1,000 SF		9 10	- 1	0.30	. 1	56		0.3		-
Market w/Disposal Unit	per 1,000 SF		3 37		1.0	- 1	187		2.		-
Market w/o Disposal Unit	per 1,000 SF		2 5	22	0.2	0	37		0.	37	-
Medical/Dental Office	per 1,000 SF	5	2 46	.09	0.4	0	75		1.	26	*
Business Office	per 1,000 SF	35	0 169	.34	0.2	0	37		2.	31	
Place of Workship	per 1,000 SF	1 2	1 41	.31	0.2	0	37		0	56	~
Public Agency	per 1,000 SF	2	195	98	0.6	о I	112		8	03	
Mortuary	per Slumber Room	1	2 13	00	1.3	io l	243		1	15	
Restaurant	per 1,000 SF			48	2.0		374		1	20	_
Restaurant, Take-out Only	per 1,000 SF	1		9 11	1.7	- 1	318		4	22	
Retail	per 1,000 SF	2	- 1	1 25	0.2	- 1	37			.83	
		1	- 1 -		0.1	1	19		t	.09	
Warehouse	per 1,000 SF			2.86							
Used Car Lot	per 10 fixtures		- 1	1.10	02		37		-	02	-
Car Wash	per Stall	1		2.80	0.		131		1	.13	-
Barber/Beauty Shop	per Chair	1	- 1	2.80	0.:		37			.45	-
Hotel, Motel	per Sleeping Room	n		2.60		30	56		1	87	-
Self Service Laundry	per Machine			7 50		50	94		1).94	
Garage	per Bay			1 80	0	10	19) (80 (
Rest Home/Boarding House	per Bed		- 1	6.50	0	30	56			1 57	-
School	per 100 Students		7 2	9.15	1.	.00	187			1 99	
Service Station	per Pump		8	4.40	0	10	19			0.03	*
Theatre	per 100 Seats	1	2	5 45	0	30	56			0 11	
Brewery	per 1,000 SF		1	2.42		.80	898			0.79	
UPPR - Multi User	F T W		1	29.41		00	187			2.01	
Subtotal Non-Residential				1,295					Ę	0.46	
SUBTOTAL				and the state of t					45	7.92	
Infiltration/Inflow		O-								50 0	
TOTAL						1			1 50	17.93	

'user_characteristics'

^[1] The equivient dwelling unit (EDU) factors reflect the relative use of all categories in relation to a single family unit (SFU = 1 EDU). The factors are multiplied times the flow for a SFU which is assumed to be 187 gallons per day to determine the wastewater flow for all other customer categories.

Table 4
City of Auburn
Sewer Enterprise Fund
Summary of Projected Expenses through 2018-19

	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Expenditures						
Salaries and benefits	\$379,596	\$398,576	\$418,505	\$439,430	\$461,401	\$484,471
Additional Salaries and Benefits		\$175,000	\$183,750	\$192,938	\$202,584	\$212,714
Services and Supplies	\$1,924,000	\$1,981,720	\$2,041,172	\$2,102,407	\$2,165,479	\$2,230,443
Maintenance	\$41,000	\$42,230	\$43,497	\$44,802	\$46,146	\$47,530
Capital Projects	\$1,525,000	\$970,000	\$1,086,400	\$1,195,040	\$1,314,544	\$1,445,998
Depreciation	\$451,257	\$464,795	\$478,739	\$493,101	\$507,894	\$523,131
Subtotal	\$4,320,853	\$4,032,321	\$4,252,062	\$4,467,717	\$4,698,049	\$4,944,288
Current Debt Service	\$853,734	\$853,734	\$853,734	\$853,734	\$853,734	\$853,734
New Debt Service	\$0	\$442,000	\$442,000	\$442,000	\$442,000	\$442,000
Subtotal	\$853,734	\$1,295,734	\$1,295,734	\$1,295,734	\$1,295,734	\$1,295,734
General Reserve	\$173,000	\$178,190	\$183,536	\$189,042	\$194,713	\$200,554
Total	\$5,347,587	\$5,506,245	\$5,708,749	\$5,927,875	\$6,161,645	\$6,411,277
Percent Increase		3.0%	3.7%	3.8%	3.9%	4.1%

Table 5
City of Auburn
Sewer Enterprise Fund
Project Loan/Bond Sizing and Debt Service

		Estimated Bond Sizing Local Project
Item	Assumptions	Oxidation Ditch/ Regional Project
Total Loan/Bonds		
Total Estimated Project Costs Proceeds		\$6,100,000 \$6,100,000
Capitalized Interest Issuance Costs Bond Reserve Fund	0 Months 4.0%	\$0 \$244,000 \$442,000
Loan/Bond Size Adjustment for Rounding		\$6,786,000 (\$3,000)
Total Loan/Bond Size		\$6,783,000
Annual Costs		
Estimated Gross Debt Service Estimated Gross Debt Service	- Rounded	\$441,244 \$442,000
Assumptions [1]		
Interest Rate Term Bond Load Factor		5.00% 30 Years 1.1120

^[1] Bond issuance assumptions are estimates only. Actual bond pricing will be determined based on market conditions at the time of bond issuance.

Table 6
City of Auburn
Sewer Enterprise Fund
Summary of Annual Revenue Requirement through FY 2018-19

			Projected			
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
	1	2	3	4	5	6
Revenue Requirement						
Salaries and benefits	\$379,596	\$398,576	\$418,505	\$439,430	\$461,401	\$484,471
Additional Salaries and Benefits	\$0	\$175,000	\$183,750	\$192,938	\$202,584	\$212,714
Services and Supplies	\$1,924,000	\$1,981,720	\$2,041,172	\$2,102,407	\$2,165,479	\$2,230,443
Maintenance	\$41,000	\$42,230	\$43,49 7	\$44,802	\$46,146	\$47,530
Capital Projects	\$1,525,000	\$970,000	\$1,086,400	\$1,195,040	\$1,314,544	\$1,445,998
Depreciation	\$451,25 7	\$464,795	\$478,739	\$493,101	\$507,894	\$523,131
Subtotal	\$4,320,853	\$4,032,321	\$4,252,062	\$4,467,717	\$4,698,049	\$4,944,288
Current Debt Service	\$853,734	\$853.734	\$853,734	\$853, 7 34	\$853,734	\$853,734
New Debt Service	\$0	\$442,000	\$442,000	\$442,000	\$442,000	\$442,000
Subtotal	\$853,734	\$1,295,734	\$1,295,734	\$1,295,734	\$1,295,734	\$1,295,734
Plus General Reserve	\$173,000	\$178,190	\$183,536	\$189,042	\$194,713	\$200,554
Subtotal Expenses	\$5,347,587	\$5,506,245	\$5,731,332	\$5,952,493	\$6,188,496	\$6,440,576
Less Revenues Met from Other Sources						
Interest Income	(\$75,000)	(\$75,000)	(\$75,000)	(\$75,000)	(\$75,000)	(\$75,000
Other Revenues	(\$36,000)	(\$36,000)	(\$36,000)	(\$36,000)	(\$36,000)	(\$36,000
Revenue Requirement	\$5,236,587	\$5,395,245	\$5,620,332	\$5,841,493	\$6,077,496	\$6,329,576

Table 7 City of Auburn Sewer Enterprise Fund Projected Cash Flow

	Inflati	on	Budget	······	F	rojected	***************************************	***************************************
	Assum	ption	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Revenues								
Current Budgeted Sewer Sales			\$5,069,872	\$5,069,872	\$5,069,872	\$5,069,872	\$5,069,872	\$5,069,872
Additional Revenue Required			\$3,003,012	\$3,005,01£	\$5,005,a12	93,003,012	\$3,003,01£	Ψ0,003,01 <i>L</i>
	ve Months							
2014-15 12	VC MOTHES			\$325,373	\$325.373	\$325,373	\$325,373	\$325,373
2015-16 12				4020,0.0	\$225,087	\$225.087	\$225,087	\$225,087
2016-17 12					4620,00 7	\$221,161	\$221,161	\$221,161
2017-18 12						JEE1,101	4221,101	\$488.084
2018-19 12								\$400,004
Total			\$5,069,872	\$5,395,245	\$5,620,332	\$5,841,493	\$6,077,496	\$6,329,576
Other Revenues								
Sewer Connection Charges [1]			\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000
Interest Income			\$75,000	\$75.000	\$75,000	\$75,000	\$75.000	\$75.000
Other Revenues			\$75,000	\$73,000	\$0	\$75,000	\$0	\$15,000
Subtotal			\$111,000	\$111,000	\$111,000	\$111,000	\$111,000	\$111,000
Subtotal Revenues			\$5,180,872	\$5,506,245	\$5,731,332	\$5,952,493	\$6,188,496	\$6,440,576
Expenses								
Salaries and Benefits		5.0%	\$379.596	\$398.576	\$418.505	\$439,430	\$461,401	\$484,471
Additional Salaries and Benefits		5 0%	\$0	\$175,000	\$183,750	\$192,938	\$202.584	\$212,714
Services and Supplies		3.0%	\$1,924,000	\$1,981,720	\$2,041,172	\$2,102,407	\$2,165,479	\$2,230,443
Maintenance		3.0%	\$41,000	\$42.230	\$43,497	\$44,802	\$46,146	\$47,530
Capital Projects		30.0	\$1.525.000	\$970,000	\$1,086,400	\$1,195,040	\$1,314,544	\$1,445,998
Subtotal Expenses			\$3,869,596	\$3,567,526	\$3,773,323	\$3,974,616	\$4,190,154	\$4,421,157
Net Revenue Before D/S & Depreciation			\$1,311,276	\$1,938,719	\$1,958,009	\$1,977,877	\$1,998,341	\$2,019,419
Depreciation		3 0%	\$451,257	\$464,795	\$478,739	\$493,101	\$507,894	\$523,131
Debt Service								
Current Debt Service			\$853,734	\$853,734	\$853,734	\$853,734	\$853,734	\$853,734
Addl' Debt Service				\$442,000	\$442,000	\$442,000	\$442,000	\$442,000
Total Debt Service			\$853,734	\$1,295,734	\$1,295,734	\$1,295,734	\$1,295,734	\$1,295,734
Debt Service Coverage			1 54	1 50	1 51	1 53	1 54	1 56
Total Expenses			\$5,174,587	\$5,328,055	\$5,547,796	\$5,763,451	\$5,993,783	\$6,240,022
Net Revenue After D/S Net Revenue as % of Total Expenses			\$6,285	\$178,190 3 3%				
Beginning Operating Balance [2]			\$1,000,000	\$1,006,285	5 \$1,184,475	\$1,368.010	\$1,557,052	\$1,751,765
Net Revenues			\$6,285	\$178,190	\$183,536	\$189,042	\$194,713	\$200,554
Ending Operating Balance			\$1,006,285	\$1,184,47	5 \$1,368,010	\$1,557,052	\$1,751,765	5 \$1,952,319
Target Operating Balance [3]			\$1.934.798	\$1 783.76	3 \$1.886.66	2 \$1.987.308	\$2.095.07	7 \$2,210.578

"proj_cashflow"

^[1] Connection fees for 2013-14 are budgeted and held constant for purposes of this anlaysis

Calculated Dev Imp Fee Treatment Only

\$3,222

Number of New EDUS per Year

11.17 Total revenues = \$36,000.00

[2] Cash and cash equivalents balance, end of fiscal year 2012-13, page 25 Audited Financial Statement (BUT ONLY A PORTION Currently)

[3] The target operating balance represents 6 months of operating expenses, excluding debt service

DRAFT		3 4 202
Table 8 City of Auburn	Sewer Enterprise Fund Capital Improvement Project (CIP) Pro Forma Cash Flow	

Sewer Enterprise Fund Capital Improvement Project (CIP) Pro Forma Cash Flow	na Cash Flow					·	ď	7	8	6	10	Foto
	0 2013-14	2014-15	2 2015-16	3 2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	
Revenues: Transfer from Operating Fund 3% Depreciation	\$451.257	\$464 795 \$970 000	\$478 739 \$1 086 400	\$493,101 \$1 195,040 854 892	\$507 894 \$1 314 544 \$2.831	\$523,131 \$1,445,998 \$2,920	\$523,131 \$1,445,998 \$854	\$523,131 \$1,445,998 \$5,679	\$523.131 \$1.445,998 \$10,361	\$523,131 \$1,445,998 \$21,627	\$523,131 \$1,445,998 \$32,546	\$5,534,573 \$14,766,974 \$219,284 \$6,100,000
Capital Projects Interest Income Bond/Loan Proceeds	\$1,976,257	\$0 \$5,000,000 \$6,434,795	\$1,100,000 \$2,752,713	\$1,743,033	\$1,825,269	\$1,972,050	\$1,969,983	\$1,974,809	\$1,979,490	\$1,990,757	\$2,001,676	\$26,620,832
Subtotal See Appendix_ Expenses: Name of the control of the con	\$300 000	\$1 100 000	\$2,200,000	\$3,300,000				6	44 228 ADD	\$1.262.800	\$1,262,800	\$6,900,000 \$3,900,000 \$18,012,191
Oxidation Ditch Imp Pfoj - INFOLS Regional Sewer Project Other Annual CIP Projects	\$300 000	\$3 600 000 \$1,447 791	\$2,731 500 \$4,931,500	\$1,913,800 \$5,213,800	\$1 819 300 \$1,819,300	\$2,109,800 \$2,109,800	\$1,648,300 \$1,648,300	\$1,662,700 \$1,662,700	\$1,228,400	\$1,262,800	\$1,262,800	\$28,812,191
Subtotal	\$1,525,000	\$287,004		(\$3,470,767)	\$5,969	(\$137,750)	\$321,683	\$312,109	\$751,090	\$727,957	\$/38,878	(97,121,000)
Net Income (Loss)	167'1684			A74 020 44	£188 708	\$194,677	\$56,926	\$378,610	\$690,718	\$1,441,808 \$727 957	\$2,169,765 \$738.876	\$5,100,000 (\$2,191,359)
Beginning Balance	\$5,100,000 \$451,257	\$5,551,257 \$287 004	\$5,838,262 (\$2.178,787)	\$3,470,767)	\$5,969	(\$137,750)	\$321,683	\$312.109	\$1,441,808	\$2,169,765	\$2,908,641	\$2,908,641
Net income texasis	\$5,551,257	\$5,838,262	\$3,659,475	\$188,708	\$194,677	\$56,926	010'0/64					

2014-15

Table 9	
City of Auburn	
Sewer Enterprise Fund	System

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Sewer Enterprise Fund										F	Total Influent			Unit Cost Per:	Per:	
Unit cost pererintarion	Allocated	Flow	Percent Allocation BOD SS	ocation	I I	Flow	Cost BOD	SS	III	Flow	BOD Klbs	SS Klbs	Mgal of Flow Kib of BOD Kib of SS (\$/Mgal) (\$/Kib)	(s/Klb)	(d) V(s)	(\$/Mgal)
Cost Category	Costs			1		-							6			\$176.11
Collection System O&M Costs [1] [2]	\$806 464	%06			10.00%	\$725,818	\$0	\$0 \$0	580,646	457 92 457.92	00.0	00.0	\$1,585.01 \$0.00 \$1,585.01	\$0.00	\$0.00	\$0.00
Fixed Variable Tatal Collection	\$0 \$806,464	%06				\$725,818	\$0	ў								4635.21
Treatment O&M Costs	\$2 908.782	%06			10.00%	\$2,617,903	\$0 \$0	\$0 \$0	\$290.878 \$31.708	457.92 457.92	00.0	00 0	\$5,716.88 \$623.18 \$6,340.06	\$0.00	\$0.00	\$69.24 \$704.45
Fixed Vanable	\$317 075 \$3,225,857	%06			200	\$2,903,271	80	× 5		757 92	00.00	00.00	\$2,546.62			\$282.96
Debt Service	\$1 295 734	%606			10 00%	\$1,166,161	80	0.9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				\$10,471.69			\$1,163.52
SUBTOTAL	\$5,328,055				nanakan dan dan dan						c c	000	5350 21			\$38.91
Other Cost Impacts General Reserve	\$178 190	%06 %06			10.00%	\$160,371	\$0 00 00 00 00 00 00 00 00 00 00 00 00 0	\$0 \$0 \$0	\$17.819 \$0 \$0 \$11,100)	457.92 457.92 457.92	00.00	000	\$0.00 (\$218.16)	\$0.00	\$0.00	\$0.00 (\$24.24) \$14.67
Rounding Credit/Offset for Other Revenues Total	(\$111 000)	%06			10 00%	\$60,471		0\$	\$6,719			anna de me-es-és	\$10,603.75	\$0.00	\$0.00	\$1,178.19
- * + < +	\$5,395,245					\$4,855,720	2	•								unit_costs

Sewer Enterprise Fund Allocation of Costs to Flow, BOD, and SS by Customer Category Unit Cost/Customer Category Unit Cost Residential																NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAME AND ADDRESS OF THE O			
Init Cost/Customer F F Init Cost/Customer M Init Cost Customer M Init Cost Esideniiai	SS by Cu	stomer Ca	ategory					The second secon			Capital Costs	sts				her Revenue	Impacts		
/Customer al			-			Operating Costs	Treatmen			1	Debt Service	ce	Į.	Subtotal	Flow	-		5	Total
/Customer				Collection	100	Flow	-	SS	55		BOD	- 6	(\$/Mgal)		(S/Mgal)	(8/K(b)		(s/Mgar)	644 703
al	Flow B	BOD Klb/Yr	SS Klb/Yr	Flow (\$/Mgai)	(\$/Mgal)	(S/Mgal)	-	1	(\$/Mgal)	(\$/Mgai)	1	4	\$282.96	\$11,635	\$132.05	\$0.00	\$0.00	\$14.67	\$11,102
a			-	\$1,585.01	\$176.11	\$6,340.06	\$0.00	20.00	+				-						
		Section of the latest	+											es 113 264	\$23,985	0\$	\$0	\$2,665	\$2,139,913
						61 151 533	0\$	0\$	\$127 947	\$462,534	0,50	9 6		\$841,839	\$9,554	\$0	S 8	\$1,062	\$382,433 \$382,035
	181 63	ŧ	,	\$287,881	\$31,987	6458 720	30	30	\$50,969	\$184,255	0.0		\$9.175	\$377,277	\$4,282	20	2 5	537	\$29.917
	72.35	٠	,	\$114,680	512.742	\$205 578	\$0	80	\$22.842	\$82,573	2,5			\$29,544	\$335	2 8	2 5	823	\$18,312
Multiple Dwelling	32.43	,	,	\$51,395	11.00	\$ 16 099	\$0	20	\$1,789	\$0.400	9	80	\$440	\$18,084	\$205))	9 6	5	\$796
	2.54	ı	1	\$4,025	2444	\$9.854	\$0	0\$	\$1,095	53,930	25	200		\$786	29	2 6	9 5	286	\$69,090
*****	1.55		•	404,74	512	\$428	20	\$0	548	514 014	08		\$1,659	\$68,230	5//4	9 6	Ç	\$8	\$6,733
	0.07		,	\$107	216	\$37.179	20	\$0	\$4.131	\$14,934	; ;			\$6,649	\$75	2 6	3 6	23	\$1,438
	5.86		ě.	59.295	000	\$3,623	20	20	\$403	\$1,433	3	20	\$35	\$1,420	\$16	0,0	9	10	\$1,959
	0.57	,	t	\$300	500	\$77.5	20	20	\$86	23.1	9	G\$	\$47	\$1,935	\$22	0 0	9 6	9	\$4.864
CDBG - Duplex / Triplex/Condo/ 10win	0.12	,	1	\$193	223	51.054	20	\$0	\$117	\$423	0,0	9 6	\$117	\$4,804	\$58	0.50	n 5	0,0	\$401
	0.17	ı	•	\$264	676	\$2.618	\$0	80	\$291	100,14	9 5	05		\$396	\$4	0.50	9 6	6563	\$451.922
2	0.41	٠	r	\$654	£/3	32,016	OS.		\$24	587	2 5			\$446,294	\$5,065	08	2, 6	25.5	\$605,307
CDBG \$13.00-/MO W/Lift Station	500	٠	,	\$54	9	20176	05		\$27 021	\$97,681	2 6			\$597,768	\$6,784	0\$	0.0	1000	CA 565 142
	38.36		1	\$60,797	\$6,755	\$243,107	0\$		\$36,192	\$130,835	9 5	•		\$4,508,290	\$51,167	0\$	2	Con'ca	1
	51.38		t	\$81,431	59.048	2323,723	\$0		\$272,953	\$986,737	0.4								
ation	387.47		,	\$614,145	\$68,238	7. 40°00.4°7¢											ç		\$620
									** ****		ç	G	\$15	\$612	25	\$0	9	9 6	\$5 451
					4	6333	30	20	\$37	\$134	200	9 6	\$131	\$5,383	\$61	20	2	À t	\$14 084
Non-Residential	0.05	,	,	\$83	56	0000	20	\$0	\$326	\$1,178	2	9 9	8338	\$13,908	\$158	0\$	2	9	54.844
Auto Dealership	0.46	٠	•	\$733	681	57.570	05	20	\$842	\$3.044	2	9 6	\$116	\$4,784	554	20	0,0	624	\$19.062
Bank/Financial Inst	1 20	,		\$1,895	\$211	50.00	208	20	\$290	\$1.047	2 2	9 5	\$458	\$18,825	\$214	0\$	2 2	570	\$2.789
Bakery	0.41	,	,	\$652	2/5	C10.258	08	0\$	\$1,140	\$4.120	06	9 6	267	\$2,754	\$31	20	2 2	2 6	\$2,609
Dag	1.62	,	,	\$2,554	C076	\$1501	\$0	8 0	\$167	2000	3,0	20	\$63	\$2,577	\$29	9 6	3	\$37	\$30,079
Dry Cleaner	0.24	4	1	53/5	245	\$1 404	20	\$0	\$156	4004	9	20	\$722	\$29,705	\$337	9 6	3 9	\$	\$839
Hall Lodge, Auditorian	0.22	1	1	54.047	\$450	\$16,186	\$0	\$0	51.798	50,002	20	20	\$20	\$829	55	g g	08	\$18	\$14,827
Health Studio Gytt	2.55	,	í	40.45	513	\$452	20	20	200	43 705	05	20	\$356	\$14,642	\$190	9 4	9	\$34	\$27,236
Market Wichsposer Strict	0.07	,	,	21.005	\$222	87.979	\$0	20	1888	45,887	80	\$0	\$654	\$26,897	\$305	2 5	20	8\$	\$6,644
Malket Wo Copcon	1,26		1	000.14	5407	\$14,656	\$0	09	0707	\$1436	05	\$0	\$160	\$6,562	4 6 6 4	Ç	30	\$118	\$94,562
predication of the	231		,	5894	66\$	\$3.575	05	2 6	45.53	\$20.439	\$0	\$0	\$2,271	\$93,385	\$1,000	05	SO	\$17	\$13,591
place of Workship	0.56	٠	ı	\$10.721	\$1.413	\$50,886	05	o 6	2000	\$2.938	80		\$326	\$13,421	64 012	SO	\$0	\$546	\$438,244
Public Agency	8.03		,	\$1.828	\$203	\$7,313	0.4	9 9	\$26.203	\$94,725	20		\$10,525	432,780	\$293	20	20	\$33	\$26,131
	1.15	s		\$58.957	\$6,551	\$235,826	9 6) C	\$1562	\$5,648	\$0		2070	421,000	\$242	\$0	20	\$27	\$21,393
=	37.20		,	\$3,515	\$391	\$14,061	D C	0.5	\$1.291	\$4,667	20	05	83 B	\$1 022	\$12	20	30	is e	6477
Take-out Only	7 7 7		1	\$2,905	\$323	511,019	9	S	\$62	\$224	0.5	2 6	7 7	\$175	\$2	\$0	2	2 6	£1 575
	500		1	\$139	818	9000	0\$	\$0	\$11	\$38	2, 6	9	\$38	\$1,557	\$18	20	2 6	20	\$5.275
	0.02	,	1	\$24	2	6848	\$0	\$0	\$94	\$341	05	3 6	\$127	\$5,210	\$59	90	2 2	2 5	\$10.277
-01	130	ε	,	\$212	524	0.830	20	\$0	\$315	51,140	06	2 6	\$247	\$10,149	\$115	05	200	7 7	\$11,057
~~~	0.45		,	\$710	6/8	\$2,039 es 630	20	\$0	\$614	\$2,221	200	9 9	\$266	\$10,920	\$124	0\$	2 6	1 1	\$949
aty Shop	0.87		,	\$1,383	\$154	65 950	20	90	\$661	\$2,390	9 4	2 9	\$23	\$937	511	04	2 6	£23	\$18.456
	0.94	à	,	\$1.488	2018	8511	30	\$0	\$57	\$203	9 6	3 9	\$443	\$18,226	\$207	20	200	000	\$23,442
Self Service Laundry	0.08	ı	,	\$128	514	11000	\$0	80	\$1 103	\$3,989	0,6	3 5	\$563	\$23,150	\$263	0\$	70.0	0.8	\$354
Garage	1.57	ť	,	\$2,483	2270	610,614	\$0	\$0	\$1,402	/90'95	7 6	3,6	89	\$349	54	204	200	2 6	\$1,314
Rest Home/Boarding House	661	٠	ŧ	\$3,154	2320	\$100	0\$	\$0	\$21	\$/6	9 6	3 7	\$32	\$1,298	\$15	20	2 6	1019	\$9,338
School	0.03	ı	,	\$48	0,00	5707	\$0	80	879	\$284	2	3	\$224	\$9,222	\$105	200	9 5	663	\$23,647
Service Station	0 11	,	,	\$177	9770	\$5.025	20	\$0	\$558	\$2,018	2	9	\$568	\$23,353	\$265	0, 0	3 5	£1 034	\$830,103
Theatre	62.0		4	\$1,256	04140	\$12.725	\$0	80	51414	55,311	9		\$19,936	\$819,765	\$9,304	0.5		,	
Brewery	2 0 1	ı	,	53,181	647.408	5446.692	0\$	0\$	\$49,632	\$1/9,423	9					5	Ş	\$6.719	\$5,395,245
CHPR - Muni Osei	70.46		,	\$111,673	† †		;	5	5 586 CC.2	\$1.166.161	\$0	\$0 \$1	\$129,573	\$9,836,345	\$60,47	9	•		
		0	0 00	\$725,818	\$80,646	\$2,903,271	20	0*	-										cost sec.

Table 12 City of Auburn Sewer Enterprise Fund Detailed Sewer Rate Calculation

#### 2014-15

#### DRAFT

			Annual	Month	ly Cost
	Number of	Allocated	Cost	Billing Unit	Basis of
Customer Category	Billing Units	Cost	Billing Unit	Mo. Charge	Charge
Residential		******	500440	007.04	11.9
Single Family	2,661	\$2,139,913	\$804.18		per Unit
Multiple Dwelling	1,493	\$852,455	\$570.97		per Unit
Duplex / Triplex / Condo / Townhome	617	\$382,035	\$619.18		per Unit
Duplex/Triplex/Condo/Townhome W/2 Lift Station	31	\$29,917	\$965.06		per Unit
Duplex/Triplex/Condo/Townhome W/1 Lift Stations	23	\$18,312			per Unit
Multiple Dwelling W/ Lift Station	1	\$796	\$796.18		per Unit
CDBG \$13,00/Mo. Reduction	109	\$69,090			per Unit
CDBG - Duplex /Triplex/Condo/ Townhome	15	\$6,733			per Unit
CDBG 1SFD W/DISC 1SFD W/O DISC	1	\$1,438		1	per Unit
CDBG \$13.00-MO W/ 2 Lift Stations	2	\$1,959			per Unit
CDBG \$13.00-/MO W/Lift Station	6	\$4,864		1	per Unit
CDBG 1 APT W/DISC	1	\$401		1	per Unit
SFD W/2 Lift Stations	393			1	per Unit
SFD with Sewer Lift Station	617			\$81.75	per Unit
Subtotal - Residential	5,970	\$4,565,142	2		
Non-Residential			0.0000	640.4	00000
Auto Dealership	3.9	"			0 per 1,000 SF
Bank/Financial Inst.	22.6	1			0 per 1,000 SF
Bakery	10.3				2 per 1,000 SF
Bar	8.6	1			1 per 1,000 SF
Dry Cleaner	13.9	1			2 per 1,000 SF
Hall, Lodge, Auditorium	11.	1			0 per 1,000 <b>S</b> F
Health Studio, Gym	10.	- 1			0 per 1,000 SF
Market w/Disposal Unit	37.			B .	1 per 1,000 SF
Market w/o Disposal Unit	5.	i			10 per 1,000 SF
Medical/Dental Office	46	1 \$14,82	27 \$321.6		31 per 1,000 SF
Business Office	169	3 \$27,2	36 \$160.8		10 per 1,000 SF
Place of Workship	41	.3 \$6,6	44 \$160.8	4 \$13.4	40 per 1,000 SF
Public Agency	196	.0 \$94,5	62 \$482.5	1 \$40.	21 per 1,000 SF
Mortuary	13	.0 \$13,5	91 \$1,045.4	3 \$87.	12 per Slumber Room
Restaurant	272	.5 \$438,2	44 \$1,608.3	\$134.	03 per 1,000 SF
Restaurant, Take-out Only	19	.1 \$26,1	31 \$1,367.1	0 \$113.	92 per 1,000 SF
Retail	134	.3 \$21,5	93 \$160.8	34 \$13.	40 per 1,000 SF
Warehouse	12	2.9 \$1,0	35 \$80.4	12 \$6	70 per 1,000 SF
Used Car Lot	-	1.1 \$1	77 \$160.8	34 \$13	.40 per 10 fixtures
Car Wash		2.8 \$1,5	576 \$562.9	92 \$46	.91 per Stall
Barber/Beauty Shop	1	2.8 \$5,2		84 \$13	.40 per Chair
Hotel, Motel	1	2.6 \$10.2			.10 per Sleeping Room
Self Service Laundry	1	7.5 \$11.0			, ,
Garage	1	1	949 \$80.		.70 per Bay
Rest Home/Boarding House	1	6.5 \$18,		1	0.10 per Bed
School	l l	9.1 \$23,			7.01 per 100 Students
Service Station	i i		354 \$80	1	5.70 per Pump
Theatre	1		314 \$241	1	0.10 per 100 Seats
			338 \$3,860		1'
Brewery [4]		2.4 \$9.4 \$23			7.01 per EDU [1]
UPPR - Multi User [1]	4	1		20	or [her FDO [1]
TOTAL		\$5,395	,240		

"rate_calc"

^[1] Billed separately by the City and accounts for actual tenants and use.

	ACTUALS Fracai Year	1	1	ACTUALS Fiscal Year	ACTUALS Fiscal Year	ACTUALS Fiscal Year 2013/12	ACTUALS Fiscal Year 2012/13	AVFRAGES Figral Year 2006/07:- 2012/13	Budget - Fiscal Year 2013/14	Fiscal Year 2014/15	Fiscal Year 2015/16	Frscal Year 2016/17	7 Fiscal Year 2017/18		F	L.i	-	Year 7 2023/24
Project Name Verates Machinery & Equipment Computes Lappined	2006/07 \$9.242 \$4.024	2007/08 \$12,212 \$1.71.	23 of 2 53 of 2 56, 898	535,381 56,074	\$4,000	\$9.841 \$1.6u3	\$130,038 \$130,038 \$601 \$137,411	547.455 547.435 55.554 75.571 7.92.166	\$5,000	53,000 55,000	000 0015 000 0015	\$52,000 \$5,000 \$5,000	\$54,000	\$5,000	554 000 5:000 0025	55 000 54 57 000 5	\$5.000 \$5.000 \$5.000	+++-+
Valent Truch Valent Truch Valent Und VAVIP Upgrade Progret Enicons Pennt UN Statent Enicons Pennt UN Statent Enicons Pennt CM Statent Enicons Pennt Statent Statent Parama Statent	527.112 687.792 681.795	50 50 50 56,815	\$463.597 557.189 \$16.729	53,810,861 58,997 58,443	\$457.048 \$457.048 \$4,944	\$95,575 \$805 \$7,607 \$87.3	\$13.500 \$9.386 \$9.399	537 735 91.00145 91.00746 57.036 57.036	\$19,000	SInmo	\$10,200	\$10,480		510 800	511.660	\$11.200 \$1	\$11.400 \$111.600 \$12.400 \$27.000	9 \$28,000
Addition for the strainty/Demoticios Village volf ulumitel Sewel  Lift Station Repairs/Adplinates	\$128.087	5777 528.458	S.ta. 326	\$234 \$11,232 \$21,387	28.195	\$32,569	510 327	5273 98.742 527.385	\$20,000	\$20,000	\$20.800	521,500	\$22,400	523.300				TO THE REAL PROPERTY.
WWTP Sciar Fruert Carpen Cunt Lift Statem N. McDarect/Skyribge Sewer Emergersey Sewer frepair.	5399.017 53.868 5531.008 59.346	\$25,119 \$107,764 \$701,060 \$2,861	51,412 28,745 \$623,475 \$6,608		53.19.7kb	573	05 90E 9165	5345182 5345182	1111	\$700 URU \$10.000	\$128,000	\$780,000 \$10,000 \$54,000	\$10,000 \$10,000 \$5e,000	080 SZ85 080 OFF	\$858,000 \$10.000 \$60,000	\$10,000 \$1 \$10,000 \$1 \$67,000 \$6	5927 000 5964 000 510 000 510 000 564 000 565 000	
Sewer help reprinted Prospector 148 Stower Projects WWTP Repairs, Lippi ados WWTP Stable System Groune District Right States Stante District APPIS Format Compilation	\$1.403 \$9.758 \$10.179 \$3.939	53.14 53.570 53.570 53.886	59.094 5179.215 53.677 59.17 59.17	\$44.572 \$0 \$7.934	\$13.673 50 \$27.114	\$79.466 \$18.025 \$741	\$41.224 \$41.224 \$445 \$0	25,112 67,112 67,112 76,73 76,73	\$50,000 \$10,000	\$10,000 \$50,000 \$50,000	510,500	\$10,060		000 015	\$12,100	\$12,500 \$10,000 \$10,000 \$1	\$10,000 \$10,000 \$10,000 \$10,000	0 514 000 0 510 000
Contation Dath Neptle Advanced Contation Dath Neptle Advanced Contation Dath Neptle Advanced Contation Petros - Dath Here May Denie Contation Dath Accidion functional Accidion functional and Chination Petros and May Experimental Accidion functional and May Chination Services and May Petros and Control Reportation Services and Co						51,246	\$14 460 \$31 618 \$0 \$10 908 \$0	5.0 ±80 5.0 ±80 50,071	\$340,000 \$60,000 \$20,000 \$15,000	\$1.100.000 \$25,000 \$10,000 \$25,000 \$25,000	\$2,200 0081	\$3,300,000 \$25,000 \$15,000	\$25,000	\$25,090	\$25,980 \$15,000	\$25.000 \$15.000 \$1	\$25,000 \$25,000 \$15,080 \$15,000	0 S25.000 0 S15.000
About the state of	Sarv., 947 515 369 617 33	\$2.912	5459 480	SGE0.134	522 546 067 5185	\$2.84 \$284	\$9.235 \$9.438	29 447 29 447 14 467 14 58 544 15 55 54 15 55 55 15 55 55 15 55 55 15 55 55 15 55 55 15 55 55 15	000 055	one 113	\$650,000	2200.000			\$150,000	5450.000		
LONG VALIDE CENTRAL REPOWER  BELL THE SERVICE THE SERVICE  BELL THE SERVICE ORIGINATE FREE  TABLET AND TABLET AND SERVICE  THE THE SERVICE ORIGINATE SERVICE  AND THE SERVICE ORIGINATE SERVICE  THE COMMENT THE SERVICE  AND THE SERVICE ORIGINATE  AND THE SERVICE ORIGINATE  THE COMMENT SERVICE  THE COMMEN			531, 407	52.230	\$25,768	\$6.103	\$28.307 \$85.345 \$532.985 \$4,901	247,704 218,451 2186,731 34,533	210 000	\$10,000			5250,000	\$350.060				
Unida Palisap Safta are Unida Palisap Safta are Unida da Saftan Daminan Bagan U Saftan Asan Art Saftan									510,000	000'015	\$50,000 \$75,000	000 5215	\$10,000 \$400,000 \$150,000	\$10,000	000 0025	510,000 51	S10 000 S10 000	510.000
Southerdee Alf Status: Towable Art Compressor URBHY Venice Greinflander Mandoming Webs										SSUDIN	SHIOON	\$50,000 \$15,000				000-595		
NPDES Advanced Oxidation Process HPDES Rew Oxidal Diffuse (Study) Desport of Waste Discharge for NPDES Report of Waste Discharge for		444							550,000	000 0015	000 0015							
2015 Forms Pond 18 Lift Station Tractor/Mower	To the second se								000 000	\$50,000	550,000	000'045						

# CITY OF AUBURN Final Sewer Rate & Fee Analysis

April 23, 2007

Prepared for:
City of Auburn
1225 Lincoln Way
Auburn, California 95603

Prepared by: ECO:LOGIC Engineering AUBR07 001

## **ECO:LOGIC**

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#### Section 1

#### Overview

The City of Auburn (the City) currently provides sewer collection and treatment for approximately 4,934 parcels. The City currently bills its charges for this service on the annual property tax bill, where it is collected along with the property tax against parcels in the City. Of these parcels, approximately 4,327 are residential customers, and the remaining 607 are commercial/non-residential parcels.

The City is currently planning significant improvements to its wastewater treatment facilities. The City's NPDES permit (CA0077712, adopted March 2005) requires that the WWTP must be upgraded to reduce effluent nitrogen levels and eliminate disinfection byproducts by December 2009. Other trace pollutants must also be reduced through source control measures. These sewer facility upgrades represent significant costs to this small foothill community. The existing sewer rates will need to be increased in order to support financing of these projects.

The City requested that ECO:LOGIC Engineering analyze the existing rates and recommend updated rates to support the necessary capital improvement program while at the same time maintaining efficient operation and maintenance of the City. This Report summarizes the analysis and findings.

The sewer rates were last updated in 1995. The rate per single family unit is \$35.00 per dwelling unit. In 2001, the rate structure was modified somewhat, in that any residential unit that wasn't a single family unit was to be considered a multiple dwelling unit. This resulted in a rate reduction for duplexes, triplexes, and condos as they were changed over to the same rate as a multi-family unit or apartment.

This rate analysis recommends that duplexes, triplexes, and condos be separated into their own customer category. Rather than two general categories of residential users, single family and multiple dwellings, it is recommended that there be three general categories:

- Single Family
- Duplex, Triplex, and Condo
- Multi-Family (Apartment)

This rate structure is similar to that of Placer County and recognizes that duplexes, triplexes, and condos typically have more people per household than an apartment but less than a single family dwelling unit.

Other than this proposed change to the rate structure, there are no other proposed changes to the rate structure at this time.

#### Section 2

## **Capital Improvement Program**

#### 2.1 EXISTING FACILITIES

The City's wastewater treatment process has evolved with changing wastewater regulations and policies. As the treatment process exists today, it consists of six major components (and the associated ancillary facilities):

- A nitrifying activated sludge treatment process (oxidation ditch and associated secondary clarifiers) with a wastewater treatment capacity of 1.67 MGD.
- A four-cell, 3.4 MG aerated treatment pond system with 90 HP of aeration equipment
  designed 1) to serve as influent flow equalization before going to the oxidation ditch, and 2)
  to provide initial treatment to large flows of dilute wastewater (resulting from infiltration and
  inflows) that will be treated in the overall 33 MG aerated and non-aerated pond treatment
  system that can operate in parallel with the oxidation ditch.
- 5.3 MGD of effluent tertiary filter capacity.
- 136,000 gallon chlorine contact basin capable of providing approximately 2 hours of contact time at design average flows.
- 30 MG of non-aerated wastewater ponds that can be used for 1) long-term storage of large volumes of influent, and 2) additional treatment of effluent leaving the aerated treatment pond system.
- A belt filter press facility that is used to dewater waste sludge that is then trucked offsite to a landfill.

The facility is able to meet the effluent limitations contained in its current NPDES permit. However, in addition to the current requirements set by the permit, the permit contains several new effluent limits and an associated compliance schedule that will require several upgrades to the existing facilities.

#### 2.2 PLANNED FACILITY UPGRADES

The City of Auburn's renewed NPDES permit contains several new effluent limitations that must be met by December 2009. These new limits will require upgrades to the City's wastewater treatment plant to include denitrification facilities and to replace chlorine disinfection facilities with ultraviolet (UV) light disinfection. The following project elements have been identified:

- Construction of a complete UV disinfection system in compliance with State requirements.
- Upgrading the plant electrical system to power the UV disinfection system with the provision of onsite backup power generation.
- Construction of a new building to house the motor control center and PLCs if insufficient space exists within the filter control building
- Modification of the existing hypochlorite system for process cleaning.
- Enhancements to the existing oxidation ditch aeration system to optimize denitrification
- Provisions for a methanol feed system for denitrification within the filters.
- Other miscellaneous improvements determined during design activities to improve system reliability.

In addition to the WWTP facility improvements, the California State Water Resources Control Board (SWRCB) recently approved new Sanitary Sewer Overflow (SSO) regulations. In an effort to reduce and prevent as well as mitigate any potential SSOs, the City will be required to develop and implement a Sanitary Sewer Management Plan (SSMP) to comply with these new regulations. The full cost implications of these regulations are not known at this time, but the City has budgeted for additional monitoring and studies to meet the near-term SSMP requirements.

Table 2-1 provides a summary of the current and projected capital improvement program (CIP) planned by the City. The on-going CIP improvements for 2006-07 are planned to be funded out of existing sewer fund reserves. After 2006-07, the expenses in the on-going CIP category are budgeted for in the projected rate calculations that are discussed in more detail below.

The WWTP Upgrade improvements will most likely be funded by the City through a revenue bond. The project cost is currently estimated at \$11,745,000 and this reflects a planning estimate only. The costs will be further refined as the project moves into the design stage and ultimately when it is bid and constructed.

Table 2-1 Capital Project Summary - With City of Auburn Upgrades to WWTP

	4	Artes	1000000		ביבונים	7.0	ŧ				l	Pharm
!!!	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	04-05 to 10-11	Financing	Existing New	EXISTING	MON
Description												
On-Going CiP Improvement Projects	:		000	6100 000	<b>C</b> 105 000	C105 DAD \$110.250	\$115,763	\$460,277			0\$	0\$
Machinery & Equipment	\$1,483	\$2,773	200,024	200,000			•	\$9,648			20	S.
Steam Flow Gauge	\$9,388	0974	2		•			\$3,958			0\$	<b></b>
Aubum Ravine Sampling	\$1,858	3. 5	32,000					\$96			0\$	<b>₽</b>
Stream Sampling for WWTP	96\$	3.	7					\$235			\$0	25
BIOASSAY Testing WWTP	\$235	2	2 8					\$388			0\$	0\$
Village Lane/Fulwailer Sewer	G\$	76F.	0,000	6269 000	6262 500	enga 500 \$275 825 \$288.406	\$289.406	\$1,291,758			o\$	0\$
Lift Station Repairs	(\$204)	\$114,431	\$100,000	ann'nez*	100,2024	11000	201	\$235,180			0\$	<b>Ģ</b>
Canvon Count/Foresthill Ave.	\$803	\$18,283	000'GLZ*					540.089			S	\$
North McDaniel/Skyridge Sewer	25	\$30,089	310,000	000	Coca Entr	C375 635 \$289 405	<b>C289 406</b>	\$1.868.474			<b>S</b>	<b>\$</b>
Granden Camer Projects	\$200,038	\$290,905	\$300,000	\$250,000	00C,2024		201.001	528 395			2	\$0
County that Hodgies	\$23,708	\$2,687	\$50,000					\$22 828			<b>0\$</b>	2
Sawai mai Operation	0\$	\$7,626	\$15,000					£345 020			5	2
Ospecial Till Dewel Players	\$20,325	\$124,695	\$200,000					STAL			5	D\$
WWVIP Repairstructure	\$144	S*	0\$					100000			200	0\$
Collection Systems 1V Equipment	25	2	\$50,000					000,004			9.0	0\$
Roble Point Sewer Kepair	U <b>S</b>	\$26,671	\$20,000					440,01			05	0\$
WWYP SCADA System	; S	\$651	\$10,000					100,014			. 57	0\$
Gunite Oitch -wwTP	470.42	57.380	20					571,454		•	9	20
NPDES Permit Renewal	ָבְילְילָי בּילִי	24.114	25,000					\$11.4			. 53	95
Back Flow Preventer Device	2,5	; ;	05					0.5			9	\$0
Televising Van	8.	£47 405	\$600,000					\$647,495			\$ \$	9
WMTP Line Pands 1A & 4	2	5	\$10.000					\$10,000			\$ 5	S
WWTP Additional Storage	3	61 072	000 075					\$41,972			: 5	9
Daveloo Source Control Program		2/2/16	000,00%					\$596,528				5
Upper Vintage Oaks Liftstation	2, 2	C47 887	Si					\$12,882	٠.		; 5	9
ower Vintage Oaks Liftstation	3 :	200714	3					\$378			000 074	¢9 093
Thermal Impact Study	<b>2</b> (	0/84	\$50.000					250,000	\$50,000	82 × 16 ×	05	85
Lifewicket Disinfection	2 5	<b>2</b>	\$350,000					\$350,000			\$ \$	25
Vacior Truck	2 6	9 5	240.000					\$40,000	500		\$40.909	\$9,091
Hydro Jet Unit	320 020	5789 046	\$2,692,000	\$600,000	\$630,000	\$651,500	\$694,575	\$6,711,114	ana'net		•	
Subtotal	Can'0876											
								000 0364	6350 000	82% 18%	\$286,364	\$63,636
WWTP Upgrade				\$200,000	\$50,000	\$50,000	000,000	000 0223	5320.000		\$261,818	\$68,182
Development of an SSES Program				\$100,000	\$100,000	5100,0013	ann'nze	000 000	000 0003	87% 18%	\$163,636	\$36,364
Trace Pollutant Studies/ Public Education			\$50,000	\$150,000				ממיממים	000,000		\$654.545	\$145,455
PreDesign of WWYTP Upgrades				\$800,000				2800,000	000,000		\$20.455	\$4,545
Design of WWTP Upgrades				\$25,000				\$25,000	000,654			
Planning (CEQA/ Financing) for WWTP Upgrades									200	184	\$490.909	\$109,091
Construction					\$600,000			\$500,000	3600,000		5163,636	\$36,364
Chemical Feed and Storage Facilities					\$200,000			\$200,000	2200,000		\$5 727 273	\$1.272.727
Deniirification Facilities				\$1,000,000	\$6,000,000			27,000,000	000,000,14		20	20\$
UV Disinfection Facilities								0.00	200		\$1,227,273	\$272,727
Membrane Filtration				\$500,000	\$1,000,000			\$1,500,000	000,000,14		\$572.727	\$127,273
Allowance for Unknown Projects					\$600,000	000	670 000	\$700,000	\$11,695,000		\$9,568,636	\$2,126,364
Construction Services (Englactives, On, inspection)	0\$	0 <b>\$</b>	\$50,000	\$2,875,000	000'000'05	000'001*	201					

#### Section 3

## Sewer Rate Analysis & Financing Plan

#### 3.1 SEWER RATE ANALYSIS

The calculated sewer rates are based on a systematic analysis of the sewer contribution made by various land uses and the costs required to collect and treat sewer influent. In the case of City of Auburn, which is a small community, only assumed wastewater flow is used to determine the relative impact each customer has on the sewer system.

The sewer rate model allocates both current and projected costs to the various customer categories based on their relative contribution to the sewer system influent (based on flow only). The allocation of costs between customer categories is based on existing sewer rate or use factors used by the City of Aubum.

Sewer expenditures include the following categories:

- Administrative Expenses
- Materials and Services
- Contract Operations
- Capital Projects/Facility Replacement
- Capital Outlay
- Expenditure Reimbursement (GF-Admin.)
- Additional Costs due to Local Project
- Debt Service

Once the costs are allocated to the various customer categories, rates are determined by dividing the allocated costs by the number of users/accounts in each category or classification. A more detailed description follows.

The following discussion provides an overview and or summary of the rate analysis. The model tables for fiscal year 2007-08 are included in Appendix A.

#### 3.1.1 HISTORICAL AND BUDGETED REVENUES

Table 3-1 shows the actual and or estimated revenues and expenses for 1999-00 through 2005-06, as well as the budgeted revenues and expense for 2006-07.

3-5

Table 3-1 Summary of Revenues and Expenses

				TISCAL 168	Liscal real cilden Julie 30				1000
•			A	Actual			Estimated	Budgeted	% Change
	2000	2001	2002	2003	2004	2005	2006	2007	2002-2007
Sewer Service Charges Sewer Connection Fees Sewer Development Fees Interest Income Other Revenues Debt Proceeds Subtotal Revenues	\$2,703,670 \$102,611 \$175,380 \$140,184 \$1632,782 \$4,763,942	\$2,628,824 \$84,007 \$107,154 \$190,272 \$4,637,294	\$2,472,123 \$121,181 \$165,801 \$111,189 \$0 \$2,870,264	\$2,481,455 \$269,649 \$231,504 \$164,203 \$0 \$0 \$3,146,811	\$2,668,627 \$270,045 \$2,987 \$49,289 \$0 \$0 \$2,990,948	\$2,471,822 \$301,682 \$6,398 \$6,398 \$0 \$2,859,902	\$2,500,000 \$256,028 \$7,800 \$100,000 \$62,494 \$0	\$2,500,000 \$265,000 \$115,000 \$0 \$0 \$0 \$2,880,000	0.22% 16.94% (100.00%) 0.68% 0.07%
EXPENSES									
Operating Expenses Administrative Expenses Materials and Services	\$46,576 \$74,210	\$50,037 \$109,891	\$47,688 \$75,844 \$1,229,972	\$80,560 \$182,899 \$1,298,744	\$118,698 \$160,534 \$1,360,895	\$133,689 \$110,012 \$1,353,387	\$170,377 \$212,168 \$1,446,127	\$164,911 \$469,600 \$1,612,571	28.16% 44.00% 5.57%
Contract Operations Capital Projects Capital Outlay Expenditure Reimburse (GF-Admin.	\$3,818,423 \$92,166 \$22,143 \$5,143,230	\$1,573,704 \$19,225 \$21,679 \$2,853,903	\$169,368 \$0 \$19,544 \$1,542,416	\$640,623 \$11,714 \$25,136 \$2,239,676	\$355,075 \$13,512 \$26,849 \$2,035,563	\$260,665 \$1,483 \$133,120 \$1,992,366	\$621,787 \$5,000 \$66,479 \$2,521,938	\$25,000 \$87,208 \$2,359,290	34.87% 8.87%
Subtotal Lapontes	(\$379,288)	\$1,783,391	\$1,327,848	\$907,135	\$955,385	\$867,536	\$408,384	\$520,710	(17.07%)
Debt Service Current Debt Service [1] Subtotal Debt Service Debt Coverage Ratio	\$277,719 \$277,719 (1.37)	\$277,719 \$277,719 6.42	\$2,114,876 \$2,114,876 0.63	\$284,348 \$284,348 3.19	\$282,234 \$282,234 3.39	\$284,663 \$284,663 3.05	\$282,234 \$282,234 1.45	\$284,348 \$284,348 1.83	
Non-Operating Expenses General Reserve (8%)	\$128,202	\$124,633 \$124,633	\$279,034	\$150,672	\$157,018 \$157,018	\$180,482 \$180,482	\$180,485 \$180,486	\$205,117	(5.97%) (5.97%)
Subtotal Expenses Net Op. Rev after D/S	\$5,549,151 (\$785,209)	\$3,256,255 \$1,381,039	\$3,936,326 (\$1,066,062)	\$2,674,696 \$472,115	\$2,474,815 \$516,133	\$2,457,511	\$2,984,667 (\$64,335) \$316,801	\$2,848,755 \$31,245 \$316,801	(6.26%)

Source: City of Auburn [1] Current debt service is for an existing SRF loan for past sewer treatment improvements. The loan will be fully repaid in 2019-20.

#### 3.1.2 SEWER CUSTOMERS

Table 3-2 summarizes the sewer customers, both residential and commercial. The City bills its sewer service charge annually with the property tax assessment rolls. Table 3-2 shows both the parcel count for residential and non-residential users, but also the "billing units." The City charges residential parcels on a per unit basis. However, the basis for charge for non-residential uses varies from a per square foot (sqft) basis, to students, to chairs, etc. This information is summarized in Table 3-2.

The assumed flow per user is also shown in Table 3-2. The flow factors are based on the current sewer use factors used by the City. These factors were determined as part of a previous rate analysis and no change is proposed in these assumptions as part of this study.

A single family unit is considered one equivalent dwelling unit (EDU). The flow assumed for a single family unit is 187 gallons per day (gpd), which is based on an assumed use of 85 gallons per person and there being on average 2.2 people per household in the City of Auburn. For the other billing categories, the EDU factor is multiplied times the single family unit flow (gpd) to determine each categories assumed respective sewer use. There are an estimated 6,852 total EDUs based on flow only.

It should be clarified that in the case of residential units with sewer lift stations, the EDU factor is not necessarily representative of flow, but rather a function of the way the parcel is charged. The EDU factors have been adjusted, not based on flow, but on the ratio these units pay monthly relative to a single family unit or one EDU. Appendix D provides further explanation of the additional allocated costs to sewer lift stations.

There are a total of 4,327 residential parcels representing approximately 5,637 residential units. There are a total of 607 non-residential parcels.

This rate analysis recommends that duplexes, triplexes, and condos be separated into their customer category. Rather than two general categories of residential users, single family and multiple dwellings, it is recommended that there be three general categories:

- Single Family
- Duplex, Triplex, Condo, and Townhome
- Multi-Family (Apartment)

This rate structure is similar to that of Placer County and recognizes that duplexes, triplexes, and condos typically have more people per household than an apartment but less than a single family dwelling unit.

4

0.44 0.742 0.033 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.038 0.044 0.044 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0 0.0012 0.0046 0.0020 0.0020 0.0015 0.0007 0.0019 0.0050 0.0051 0.0050 0.0050 0.0053 0.0053 0.0053 0.0027 0.0004 0.0069 0.0069 0.0053 0.0070 0.0064 0.0078 Wastewater Characteristics ADWF/User REODE CO 187 227 268 308 134 GPD (a) 1.00 1.43 1.65 0.77 EDU. 315 4,093 Ĭ. 138 84 286 124 34 110 20 4,401 10,038 6,852 Billing 2,985 447 511 61 61 4,004 Parcel Units/ per 1,000 SF per Lane per Sleeping Room per Machins per Bay per Bed per 100 Students per Pump per 100 Seats per 1,000 SF Estimated EDUs (based on Flow & Sewer Lift Charge) Basis of Charge per Stall per Chalr per Unit per Unit per Unit Single Family w/1 Sewer Lift Stat. [2] Single Family w/2 Sewer Lift Stat. [2] Single Family w/3 Sewer Lift Stat. [2] Multi-Family (Fiat fee per Unit) Multi-Family (Sever Lift Station) [2] Subtotal - Multi-Family

Market w/Disposal Unit Market w/o Disposal Unit Medica/Dental Office

Hall, Lodge, Auditorlum

Dry Cleaner

lealth Studio, Gym

Bank/Financial Inst. Bakery

Non-Residential Auto Dealership

Restaurant Restaurant, Take-out Only

Place of Workship Public Agency Business Office

Mortuary

Rest Home/Boarding House

Service Station

Theatre School

Self Service Laundry

Barber/Beauty Shop

**Bowling Alley** 

Hotel, Mote!

Used Car Lot

Narehouse Car Wash Subtotal Non-Residential

nfittetien/Inflow

SUBTOTAL

Table 3-2 Summary of Wastewater User Characteristics

Customer Category

Residential

Subtotal - Single Family

Duplex/Triplex/Condo

(1) Only stow is considered in this rate analysts. This is typical for simular cities.
(2) The EDU and now inclor for units requiring use of sewer lift atalion. See Tables D-1 and D-2 for delate.

Other than this proposed change to the rate structure, there are no other proposed changes to the rate structure at this time (i.e., no proposed changes to the flow/EDU factors for non-residential users).

#### 3.1.3 PROJECTED REVENUES AND EXPENSES

In the rate analysis, or revenue model, the expenses are projected based off of budgeted expenses for 2006-07. Expenses are projected through 2011-12 as shown in Table 3-3. More detailed tables that also show how these costs are allocated to treatment and collection are provided in Appendix C. The costs are projected based on the following percentages:

<ul> <li>Administrative Expenses</li> </ul>	7.0%
Materials and Services	5.0%
Contract Operations	5.0%
Capital Projects/Facility Replacement	5.0%
Capital Outlay	5.0%
Expenditure Reimburse (GF-Admin.)	5.0%
Additional Costs due to Local Project	5.0%

Included in the expenses is an assumption for debt service. There are three scenarios assumed in the debt service calculation as shown in Table 3-4. The main difference between the scenarios is the assumed use of existing fund reserves applied to the project cost thereby reducing the amount of the project costs to be borrowed. Scenario 1 assumes no use of reserve funds, Scenario 2 assumes \$1,000,000 in reserve funds, and Scenario 3 assumes \$2,000,000 in reserve funds. The financing terms that are assumed are the same for each scenario.

It should be noted that the financing assumptions, such as the interest rate and term, are only assumptions. Actual financing terms will be determined by the lender at the time of financing and will be based on market conditions at that point in time.

The projected expenses also include a revenue offset line item. The rate analysis assumes that the City will have a minimum of 25 new EDUs of development each year and that they will pay a sewer connection fee. The revenue offset assumes that the City transfers the sewer treatment portion of the fee to the sewer operating fund to go towards new development's share of debt service on the project. Chapter 4 discusses the fee assumptions in greater detail.

Table 3-3
Summary of Projected Expenses through 2011-12 – Scenario 1

	Budgeted			Projected		
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Administrative Expenses	\$164,911	\$176,455	\$188,807	\$202,023	\$216,165	\$231, <b>2</b> 96
Materials and Services	\$469,600	\$493,080	\$517,734	\$543,821	\$570,802	\$599,342
Contract-Operations	\$1,612,571	\$1,693,200	\$1,777,860	\$1,866,753	\$1,960,090	\$2,058,095
Capital Projects/Facility Replacement	\$0	\$600,000	\$630,000	\$661,500	\$694,575	\$729,304
Capital Outlay	\$25,000	\$26,250	\$27,563	\$28,941	\$30,388	\$31,907
Expenditure Reimburse (GF-Admin.)	\$87,208	\$91,568	\$96,147	\$100,954	\$106,002	\$111,302
Additional Costs due to Local Project	\$0	\$50,000	\$52,500	\$55,125	\$57,881	\$60,775
Subtotal	\$2,359,290	\$3,130,553	\$3,290,609	\$3,458,916	\$3,635,902	\$3,822,021
Current Debt Service	\$284,348	\$284,348	\$284,348	\$284,348	\$284,348	\$284,348
Additional Debt Service	\$0	\$826,000	\$826,000	\$826,000	\$826,000	\$826,000
General Reserve	\$180,485	\$310,252	\$335,190	\$331,323	\$318,777	\$317,653
Capital Reserve for Regional Project	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0
Total	\$2,824,123	\$4,551,153	\$4,736,148	\$4,900,587	\$5,065,027	\$5,250,022
CredIVOffset for Other Revenues (Fee Revenue)	\$0	(\$70,171)	(\$70,171)	(\$70,171)	(\$70,171)	(\$70,171)
Adjusted Total	\$2,824,123	\$4,480,982	\$4,665,976	\$4,830,416	\$4,994,856	\$5,179,850
Percent Increase		58.7%	4,1%	3.5%	3.4%	3.7%

Table 3-4
Summary of Financing Assumptions and Debt Service Calculation

		mated Bond Sizi	ng
		Scenario 2	Scenario 3
Assumptions		<b>+</b> · · · · · · · · · · · · · · · · · · ·	\$2 Million In
A	Capital Reserves	Cap. Res. Used	Cap. Res. Used
	\$11,745,000	\$11,745,000	\$11,745,000
	\$0	(\$1,000,000)	(\$2,000,000)
	\$11,745,000	\$10,745,000	\$9,745,000
0 Months	\$0	\$0	\$0
4.0%	\$469,800	\$429,800	\$389,800
	\$826,000	\$758,000	\$685,000
	\$13,040,800	\$11,930,800	\$10,819,800
	\$19,200	\$17,200	\$16,200
	\$13,060,000	\$11,948,000	\$10,836,000
	\$825.515	\$755.227	\$684,938
- Rounded	\$826,000	\$756,000	\$685,000
			· ·
	4 75%	4 759	4.75%
	4.0%	Scenario 1 No Use of Capital Reserves  \$11,745,000 \$0 \$11,745,000 \$11,745,000 \$4.0% \$469,800 \$826,000 \$13,040,800 \$13,040,800 \$13,060,000  \$825,515 - Rounded \$826,000  4.759 30 Year	Assumptions No Use of Cap. Res. Used  \$11,745,000 \$11,745,000 \$11,745,000 \$0 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$10,745,000 \$11,000 \$11,930,800 \$11,930,800 \$11,930,800 \$11,9200 \$11,9200 \$11,9200 \$11,9200 \$11,9200 \$11,9200 \$12,000 \$12,000 \$11,920,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12,000 \$12

Bond issuance assumptions are estimates only. Actual bond pricing will be determined based on market conditions at the time of bond issuance.

#### 3.2 PROJECTED RATE IMPACT

Table 3-5 below summarizes the projected rate impact for 2007-08. The additional debt service from the capital improvement projects significantly impacts the rate needed to support the City. As shown on Table 3-5 the additional debt service adds another \$8.33 to \$10.05 per EDU in revenue needs (depending on whether the City uses existing reserves to fund part of the project or not).

In addition to the new debt service, there are increased operations and maintenance costs (O&M), which represents about an average of 4 percent cost increase per year. It was also assumed that the City would have on-going facility replacement needs for existing infrastructure (e.g., collection system, sewer lift stations, etc.). The model assumes approximately \$600,000 in these types of expenses in 2007-08, which adds approximately \$4.50 per month per EDU. It should be noted that this expense line item is intended to encompass annual depreciation as well.

Table 3-5
Summary of Rate Impact for 2007-08

		Estimated Cost	
		With \$1 M	With \$2 M
	Full Cost	Reserves Applied	Reserves Applied
Item	Financing	to Prj. Cost	to Prj. Cost
WWTP Facility Upgrade Project	\$11,745,000	\$10,745,000	\$9,745,000
Additional Financing Costs	\$1,315,000	\$1,203,000	\$1,091,000
Subtotal Costs	\$13,060,000	\$11,948,000	\$10,836,000
Estimated New Debt Service	\$826,000	\$756,000	\$685,000
Total Estimated EDUs	6,852	6,852	6,852
Annual Cost per EDU	\$120.55	\$110.34	\$99.97
Monthly Cost per EDU	\$10.05	\$9.19	\$8.33
Current Cost per EDU	\$35.00	\$35.00	\$35.00
Estimated Cost per EDU	\$45.0 <b>5</b>	\$44.19	\$43.33
Additional Est. Projected Rate Impact (2007-08)			
O&M Cost Increase	\$1.49	\$1.49	\$1.49
Capital Projects/Facility Replacement	\$4.50	\$4.50	\$4.50
General Reserve for Debt Service Coverage	\$3.46	\$3.22	\$3.18
Subtotal	\$9.45	\$9.21	\$9.17
Total Estimated Cost per EDU FY2007-08	\$54.50	\$53.40	\$52.50
Difference (cost per month per EDU)		\$1.10	\$2.00

The final rate component impact is one of providing adequate debt service coverage for purposes of meeting projected financing requirements. Lenders almost always include a debt service coverage covenant in loan or bond documents that require the borrower to set rates at a high enough level that net revenues will cover debt service by some factor ranging from as low as 1.10

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City of Auburn Sewer Rate & Fee Analysis times to as high as 1.60 times, depending on the credit quality of the borrower. The rate model has assumed a coverage ratio of at least 1.2 times (and 1.1 times excluding development impact fee revenue. These are only assumptions at this time, the actual coverage requirements will be determined at the time of financing.

Overall, it is projected that the minimum monthly rate per EDU would need to be increased from \$35.00 to \$54.50 as shown in the cash flow projection in Table 3-6 (Scenario 1), to \$53.40 in Table 3-7 (Scenario 2), or to \$52.50 in Table 3-8 (Scenario 3).

Table 3-9 shows the project rate increases for all customer categories through 2011-12.

It should be noted that there are residential units within the City that are designated as low income and are subsidized with Community Development Block Grant (CDBG) funding. These units receive a \$13.00 per month discount off of the current rate. It is assumed that this discount will continue to apply. These units (approximately 139 units) will receive a \$13.00 per month discount off of the adopted rate per the appropriate customer category (e.g., single family, multifamily, etc.). The rate reduction for low income households is back filled by the City from CDBG funds, so other rate payers will not bear costs that would otherwise be allocated to the low income households if there were no rate reduction.

Table 3-6 Cash Flow Summary - Full Project Cost Financed

	Inflation	Budget			Projected		
	Assumption	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Revenues					1 1 1 1		
Monthly Charge		\$35,00	\$54,50	\$56.75	\$58.75	\$60.75	\$63.00
Sewer Sales		\$2,500,000	\$4,480,982	\$4,665,976	\$4,830,416	\$4,994,856	\$5,179,850
Other Revenues			• 1, 100,000	.,,,,,,,,,	• 1,000,110	4 1 1	**,***,***
Sewer Connection Charges [1]		\$265,000	\$70,171	\$70,171	\$70,171	570,171	\$70,171
Interest Income		\$115,000	\$0	\$0	<b>5</b> 0	\$0	\$0
Other Revenues		\$0	\$0	\$0	\$0	<b>C2</b>	\$0
Subtotal		\$115,000	\$0	\$0	\$0	\$0	\$0
Subtotal Revenues		\$2,880,000	\$4,551,153	\$4,736,148	\$4,900,587	\$5,065,027	\$5,250,022
Expenses							
Administrative Expenses	7.0%	\$154,911	\$175,455	\$188,807	\$202,023	\$216,165	\$231,296
Materials and Services	5.0%	\$469,600	\$493,080	\$517,734	\$543,621	\$570,802	\$599,342
Contract Operations	5.0%	\$1,612,571	\$1,593,200	\$1,777,860	\$1,866,753	\$1,980,090	\$2,058,095
Capital Projects/Facility Replacement [2]	5.0%		\$600,000	\$630,000	\$661,500	\$694,575	\$729,304
Capital Outlay	5.0%	\$25,000	\$26,250	\$27,563	\$26,941	\$30,389	\$31,907
Expenditure Reimburse (GF-Admin.)	5.0%	\$87,208	\$91,588	\$96,147	\$100,954	\$108,002	\$111,302
Additional Costs due to Local Project	5.0%		\$50,000	\$52,500	\$55,125	\$57,881	\$60,775
Subtotal Expenses		\$2,359,230	\$3,130,553	\$1,290,609	\$3,458,916	\$3,635,902	\$3,822,021
Nat Revenue Before D/S & Depreciation	n	\$520,710	\$1,420,600	\$1,445,538	\$1,441,671	\$1,429,125	\$1,428,001
Debt Service							
Current Debt Service		\$284,348	\$284,348	\$284,348	\$284,348	\$284,348	\$284,348
Addf Debt Service			\$826,000	\$926,000	\$826,000	\$826,000	\$828,000
Total Debt Service		\$284,348	\$1;110,348	\$1,110,348	\$1,110,348	\$1,110,348	\$1,110,348
Debt Service Coverage		1.83	1.28	1,30	1.30	1.29	1.29
Debl Service Coverage w/o Fee Transfer		0,90	1.22	1.24	1.24	1.22	1.22
Cap. Reserve for Regional Project [3]	5.0%	320	<b>\$</b> D	02	02	\$0	\$0
Subtotal		\$0	\$0	\$0	\$0	\$0	\$0
Total Expenses		\$2,643,638	\$4,240,901	\$4,400,957	\$4,569,264	\$4,745,250	\$4,932,369
Net Ravenue After D/S		\$235,362	\$310,252	\$335,190	\$331,323	\$318,777	\$317,653
Net Revenue as % of Total Expenses		*234,502	7.3%				
Beginning Operating Balance [4]		\$4,786,813	\$2,431,175	\$2,741,427	\$3,076,617	\$3,407,941	\$3,728,71
			****	****	****	****	B0 4 F
Net Revenues Capital Projects Funded by Reserves Reserves Used for CIP Financing		\$238,382° (\$2,592,000) \$0	\$310,252	\$335,190	\$331,323	\$31B,777	\$317,65
Ending Operating Balance		\$2,431,175	\$2,741,427	\$3,076,517	\$3,407,941	\$3,725,717	\$4,044,37
Target Operating Balance [5]		\$1,179,645	\$1,565,276	\$1,645,305	\$1,729,458	\$1,817,951	\$1,911,01

[&]quot;proj_cushow"

^[1] Connection fees for 2008-07 are budgeted; For 2007-08 through 2011-12 the fee revenue is calculated assuming:
Calculated Oev Imp Fee Treatment Only \$2,807
Number of New EDUS per Year 25.00 Total revenues = \$70,171.18
[2] Based on projected facility replacement/depreciation requirements. FY 2008-07 funded out of reserves.
[3] None Assumed.
[4] Cash and cash equivalents belance, end of fiscal year 2005-05, page 27 Audited Financial Statement.
[5] The target operating balance represents 8 months of operating expenses, excluding debt service.

Table 3-7 Cash Flow Summary - Assuming \$1 M in Reserves Applied to Project Cost

	Infiation	Budgat			Projected		
	Assumption	2006-07	2007-0B	2008-09	2009-10	2010-11	2011-12
Revenues							
Monthly Charge		\$35.00	\$53.40	\$55.40	\$57.40	\$59,40	\$61.60
Sower Sales		\$2,500,000	\$4,390,796	\$4,555,248	\$4,719,695	\$4,884,144	\$5,065,038
Other Revenues				4.,===,=	<b>4</b> -1, 10,000	**,000**,	40,000,000
Sewer Connection Charges [1]		\$265,000	\$70,171	\$70,171	\$70,171	\$70,171	\$70,171
Interest Income		\$115,000	\$0	\$0	\$0	\$0	\$0
Other Revenues		\$0	20	\$0	02	\$0	\$0
Subtotal		\$115,000	\$0	\$0	\$0	\$0	\$0
Subtotal Revenues		\$2,880,000	\$4,460,967	\$4,625,417	\$4,789,866	\$4,954,315	\$5,135,210
Expenses							
Administrative Expenses	7.0%	\$154,911	\$178,455	\$188,807	\$202,023	\$215,185	\$231,296
Materials and Services	5.0%	\$459,600	\$493,080	\$517,734	\$543,621	\$570,80Z	\$599,342
Contract Operations	5.0%	\$1,812,571	\$1,693,200	\$1,777,860	\$1,856,753	\$1,960,090	\$2,058,095
Capital Projects/Facility Replacement [2]	5.0%		\$600,000	\$630,000	\$561,500	\$694,575	\$729,304
Capital Outlay	5.0%	\$25,000	\$25,250	\$27,563	\$28,941	\$30,388	\$31,907
Expenditure Relmburse (GF-Admin.)	5.0%	\$87,208	\$91,568	\$96,147	\$100,954	\$108,002	\$111,302
Additional Costs due to Local Project	5.0%		\$50,000	\$52,500	\$55,125	\$57,881	\$80,775
Subtotal Expenses		\$2,359,290	\$3,130,553	\$3,290,609	\$3,458,916	\$3,635,902	\$3,822,021
Net Revenue Before D/S & Depreciation	1	\$520,710	\$1,330,415	\$1,334,807	\$1,330,950	\$1,318,413	\$1,313,189
Debt Service							
Current Debt Service		\$284,348	\$284,348	\$284,348	\$284,348	\$284,348	\$284,348
Addi' Debt Service			\$756,000	\$756,000	\$756,000	\$758,000	\$756,000
Total Debt Service		\$284,348	\$1,040,348	\$1,040,348	\$1,040,348	\$1,040,348	\$1,040,348
Debt Service Coverage		1.83	1.28	1.28	1.28	1.27	1.26
Debt Service Coverage w/o Fee Transfer		0.90	1.21	1,22	1.21	1,20	1.15
Cap. Reserve for Regional Project [3]	5.0%	\$0	<b>5</b> 0	\$0	\$0	20	\$0
Subtotal		\$0	-\$0	\$0	\$0	SO	\$0
Total Exponses		\$2,643,638	\$4,170,901	\$4,330,957	\$4,499,264	\$4,676,250	\$4,862,369
Net Revenue After D/S		tare ses	****	**** * ***			
Net Revenue as % of Total Expenses		\$236,362	\$290,067 7.0%	\$294,459 6.8%	\$290,602 6.5%	\$278,065 5,9%	\$272,841 5.69
Beginning Operating Balance [4]		\$4,786,813	\$1,431,175	\$1,721,242	\$2,015,701	<b>5</b> 2,306,303	\$2,584,36
Net Revenues		\$236,362	\$290.067	\$294,459	\$290,602	\$278,065	\$272.84
Capital Projects Funded by Reserves		(\$2,592,000)		445 1,405	4200,002	<b>4</b> 2., 0,000	92.2,54
Reserves Used for CIP Financing		(\$1,000,000)					
Ending Operating Balance		\$1,431,175	\$1,721,242	\$2,015,701	\$2,305,303	\$2,584,368	\$2,857,20
Target Operating Balance (5)		\$1,179,545	\$1,595,276	\$1,645,305	\$1,729,458	\$1,817,951	\$1,911,01

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^[1] Connection fees for 2005-07 are budgeted; For 2007-08 through 2011-12 the fee revenue is calculated assuming: Calculated Dev Imp Fee Treetment Only Number of New EDUS per Year 25.00 Total revenues = \$70, 171.18

^[2] Based on projected facility replacement/depreciation requirements. FY 2006-07 funded out of reserves. [3] None Assumed.

 ^[4] Cash and cash equivalents balance, and of fiscal year 2005-08, page 27 Audited Financial Statement.
 [5] The larget operating balance represents 6 months of operating expenses, excluding debt service.

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Table 3-8 Cash Flow Summary - Assuming \$2M in Reserves Applied to Project Cost

	Inflation	Budget			Projected		
	Assumption	2006-07	2007-08	2008-09	2009-18	2010-11	2011-12
Revenues							
Monthly Charge		\$35.00	\$52,50	\$54.25	\$56.25	\$58,25	\$60.50
Sewer Sales		\$2,500,000	\$4,316,794	\$4,460,587	\$4,525,137	\$4,789,586	\$4,974,591
Other Revenues							
Sewer Connection Charges [1]		\$265,000	\$70,171	\$70,171	\$70,171	\$70,171	\$70,171
Interest income		\$115,000	\$0	\$0	\$0	02	\$0
Other Revenues		\$0	<b>\$</b> D	02	02	20	20
Subtotal		\$115,000	\$0	\$0	\$0	\$0	\$0
Subtotal Revenues		\$2,880,000	\$4,385,965	\$4,530,858	\$4,595,308	\$4,859,757	\$5,044,762
Expenses							
Administrative Expenses	7.0%	\$164,911	\$176,455	\$188,807	\$202,023	\$218,165	\$231,298
Materials and Services	5.0%	\$469,500	\$493,080	\$517,734	\$543,521	\$570,802	\$599,342
Contract Operations	5.0%	\$1,612,571	\$1,693,200	\$1,777,860	\$1,866,753	\$1,960,090	\$2,058,035
Capital Projects/Facility Replacement [2]	5.0%		\$600,000	\$630,000	\$661,500	\$694,575	\$729,304
Capital Outlay	5.0%	\$25,000	\$26,250	\$27,563	\$28,941	\$30,388	\$31,907
Expenditure Reimburse (GF-Admin.)	5.0%	\$67,208	\$91,588	\$98,147	\$100,954	\$105,002	\$111,302
Additional Costs due to Local Project	5.0%		\$50,080	\$52,500	\$55,125	\$57,881	\$60,775
Subtotal Expenses		\$2,359,290	\$3,130,553	\$3,290,609	\$3,458,916	\$3,635,902	\$3,822,021
Net Revenue Before D/S & Depreciation	1	\$520,710	\$1,258,413	\$1,240,249	\$1,236,392	\$1,223,855	\$1,222,742
Debt Service							
Current Debt Service		\$284,348	\$284,348	\$284,348	\$284,348	\$284,348	\$284,348
Addi' Debt Service			\$685,000	\$685,000	\$885,000	\$685,000	\$685,000
Total Debt Service		\$284,348	\$969,348	\$959,348	\$969,348	\$969,348	\$989,348
Debt Service Coverage		1.83	1,10	1.28	1.29	1.25	1.2
Debt Service Coverage w/o Fee Transfer		0.90	1.22	1.21	1.20	1.19	1,1
Cap. Reserve for Regional Project [3]	5,0%	\$0	\$0	02	50	50	\$6
Subtotal		\$0	\$0	\$0	\$0	\$0	\$1
Total Expenses		\$2,643,638	\$4,099,901	\$4,259,957	\$4,428.264	\$4,505,250	\$4,791,36
Net Revenue After D/S		\$236,362	\$287,085	\$270,901	\$267,044	\$254,507	\$253,39
Net Revenue as % of Total Expenses			7.0%	6.4%	6.0%	5,5%	5.3
Beginning Operating Balance [4]		\$4,786,813	\$431,175	\$718,240	\$989,140	\$1,256,184	\$1,510,69
Net Revenues Capital Projects Funded by Reserves Reserves Used for CIP Financing		\$236,362 (\$2,592,000) (\$2,000,000)	\$287,065	<b>\$</b> 270,901	\$267,044	\$254,507	\$253,39
Ending Operating Balance		\$431,175	\$718,240	\$989,140	\$1,256,184	\$1,510,591	\$1,764,08
Torget Operating Balance (5)		\$1,179,645	\$1,565,276	\$1,645,305	\$1,729,458	\$1,817,951	\$1,911,0

^[1] Connection fees for 2005-07 are budgeted; For 2007-08 through 2011-12 the fee revenue is calculated assuming: Calculated Dev Imp Fee Treatment Only Number of New EDUS per Year 25.00 Total revenues = \$70,171.18

Number of New EDOS per Year 20.00 Total revenues a 370,171.78

[2] Based on projected facility replacement/depreciation requirements. FY 2006-07 funded out of reserves.

[3] None Assumed.

[4] Cash and cash equivalents balance, end of fiscal year 2005-06, page 27 Audited Financial Statement.

[5] The larget operating balance represents 8 months of operating expenses, excluding debt service.

						-		A 1100 AL 0100				
		Rate	2007-08	2008-09	2009-10	2010-11	2011-12	2007-08	2008-09	2009-10	71-0107	71-1107
Residential [1]	;	0 1 2 4	664.60	CKE 75	\$58.75	\$60.75	\$63.00	\$53.40	\$55.40	\$57.40	\$59.40	\$61.60
Single Family	per Unit	933.00	30.4.04	20.00	571.41	£73.84	576.58	\$54.91	\$67.34	\$69.77	\$72.20	\$74.8
Single Family w/1 Sewer Lift Stat.	per Unit	447.36	678 00	£84.33	CB & 0.7	586 93	\$90.16	\$76.42	\$78.28	\$82.15	\$85,01	\$88.1
Single Family w/2 Sewer Lift Stat. Single Family w/3 Sewer Lift Stat.	per Unit	\$57.65	\$89.74	\$93,45	\$96,74	\$100.03	\$103.75	\$87.94	\$91.23	\$94.52	\$97.82	\$101.4
	:		540.03	27 273	16.45.30	SAG BA	548 5B	\$41.17	\$42.72	\$44.26	\$45.80	\$47.50
Duplex/Triplex/Condo	per Unit	\$24.00	242.02 628.01	C40 52	\$41.05	\$43.38	\$44.99	\$38,13	\$39,56	\$40.99	\$42.41	\$43,98
Multi-Family (Flat fee per Unit) Multi-Family (Sewer Lift Station)	per Unit	\$31.55	\$53.77	\$55.99	\$57.96	\$59.93	\$62.15	\$52.68	\$54.66	\$56.63	\$58,60	\$60.7
7 9 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	* .											0
Non-Kesigential	000	67.00	\$10.90	\$11.35		\$12.15	\$12.60	\$10.68	\$11.08	\$11.48	\$11.68	212.0
Auto Dealership	per 1,000 sr	510.50	\$16.35	\$17.03	_	\$18.23	\$18.90	\$16.02	\$16.62	\$17.22	\$17.82	\$18,48
Bank/Financial Inst.	3	00.014	£92.65	SOF AR	-	\$103.28	\$107.11	\$90.79	\$94.19	\$97,59	\$100.99	\$104.7
Bakery	000	339.30	10 ACC	230.73		\$42.53	\$44.10	\$37.38	\$38.78	\$40.18	\$41.58	\$43.1
Bar	000	0C.42¢	430.10	07.006		C 5013	\$107.11	\$90.79	\$94.19	\$97.59	\$100.99	\$104.7
Dry Cleaner	900	\$59.50	\$82.65	0 t 1 t 1		648.72	\$48 90	\$16.02	\$16,62	\$17.22	\$17.82	\$18.4
Hall Lodge Auditorium	per 1,000 SF	\$10.50	\$16.35	50,714		27.01.4	C18 DU	\$18.02	\$18.62	\$17.22	\$17.82	\$18.4
Health Studio, GVm	000	\$10.50	\$16,35	50.714		\$10.43	00.00	\$53.40	\$55,40	\$57.40	\$59,40	\$61.6
Market w/Disposal Unit	000	\$35.00	\$54.50	436,73	_	7,000	417.67	X10 68	\$11.08	511.48	\$11.88	\$12.3
Market w/o Disposal Unit	per 1,000 SF	\$7.00	\$10.90	\$71.35	471./J	C1.214	\$25.20	\$21.36	\$22.16	\$22.96	\$23.76	\$24.64
Medical/Dental Office	per 1,000 SF	\$14.00	321.80	277.70		612.15	£12 60	\$10.68	\$11.08	\$11.48	\$11.88	\$12.3
Business Office	per 1,000 SF	\$7.00	\$10.90	41.35		\$10.15	\$12.60	\$10.68	\$11.08	\$11.48	\$11.88	\$12.3
Place of Workship	per 1,000 SF	00.74	\$10.90	2 4		59 963	\$37.80	\$32.04	\$33.24	\$34.44	\$35.64	\$36.9
Public Agency	per 1,000 SF	\$21,00	532.70	404.00		K78 98	581 91	\$69.42	\$72.02	\$74.62	\$77.22	\$80.08
Mortualy	per Slumber Room	\$45.50	\$/U.85	0/2/4		C151 BB	\$157.51	\$133.51	\$138.51	\$143.51	\$148.51	\$154.0
Restaurant	per 1,000 SF	587.50	\$136.25	00.14.4		512150	5128 01	\$106.81	\$110.81	\$114.81	\$118.81	\$123.2
Restaurant, Take-out Only	per 1,000 SF	\$/0.00	00.6014	24.4.20		\$12.15	512.60	\$10.68	\$11.08	\$11.48	\$11.88	\$12.33
Retail	per 1,000 SF	\$7.00	310.90	7 4		SE 08	\$6.30	\$5,34	\$5.54	\$5.74	\$5,94	\$6.16
Warehouse	per 1,000 SF	\$3.50	\$5.45	20,04		£42.00	\$12.60	\$10.68	\$11.08	\$11.48	\$11,88	\$12.32
Used Carlot	per 10 fixtures	\$7.00	410.90	27.75		542.53	\$44.10	\$37.38	\$38.78	\$40,18	\$41.58	\$43,12
Car Wash	per Stall	\$24.50	958.10	0.00		£12 15	\$12.60	\$10.68	\$11.08	\$11.48	\$11.88	\$12.32
Barber/Reauty Shop	per Chatr	\$7.00	\$10.90	200.11.33	7.1.1	C1.21.5	225.20	\$21.36	\$22,16	\$22.96	\$23.76	\$24.6
Bowling Affey	per Lane	\$14.00	321.80	344.10		648 23	11 B BO	\$16.02	\$16.62	\$17.22	\$17.82	\$18.46
Hotel Motel	per Sleeping Room	\$10.50	\$16,35	\$17.U3	_	27.014	431.50	\$26.70	\$27.70	\$28.70	\$29.70	\$30.80
Cost Condra Laundo	per Machine	\$17.50	\$27.25	\$26.30	_	00.00	20.00	AF 74	\$5.54	\$5.74	\$5.94	\$6.16
	per Bay	\$3.50	\$5,45	\$5.68	55.88	90.00	20.30	515.07	\$16.62	\$17.22	\$17.82	\$18.48
Calabe Cart Cart (Bearding House	per Bed	\$10.50	\$16.35	\$17.03		318.23	00.00	# 659 AD	\$55.40	\$57.40	\$59.40	\$61.60
Kest nomerone and services	per 100 Students	\$35.00	\$54.50	\$56.75		560.75	00.00	0r. u.e.	45.54	\$5.74	\$5.94	\$6.16
School	ner Pumo	\$3.50	\$5.45	\$5.68	\$5.88	\$6.08	36.50	ָבְירָ בְּירָ בְּיר	E15.67	\$17.22	\$17.82	\$18.48
Service Station	cor 100 Seats	\$10.50	\$16,35	£17.03	\$17.63	\$18.23	218.90	20.01	10.01	5274 B1	5284 20	\$294,96
200					00 1000	2004	DF 6053	2700.47	10.002			

Table 3-9

3-13

Prepared by FCO:LOGIC

		Current	Local WM	TP Project	w/Use of \$	Local WWTP Project w/Use of \$2 M in Cap Reserves	Reserves
		Rate	2007-08	2008-09	2009-10	2010-11	2011-12
							i
Residential [1]	lioit	\$35.00	\$52.50	\$54.25	\$56.25	\$58.25	\$60.50
Single Family	per Crit	\$42.56	\$63.82	\$65.94	\$68,38	\$70.81	\$73.54
Single Family w/1 Sewer LIR Stat.	per Our	450 10	\$75.14	\$77.64	\$80.50	\$83.36	\$86.58
Single Family w/2 Sewer Lift Stat.	per Unit	\$57.65	\$88.45	\$89,34	\$92.63	\$95.92	\$89.63
out the same of th					1		30 37 6
opus (Tripley) Conto	per Unit	\$24.00	\$40.48	\$41.83	\$43.37	444.91	0 0
Dupley Inplession	ner Unit	\$24.00	\$37.49	\$38.74	\$40.16	\$41.59	\$43.20
Multi-Family (Sewer Lift Station)	per Unit	\$31.55	\$51.80	\$53.52	\$55.50	\$57.47	\$56.69
Non-Residential	į,	42.00	61050	\$10.85	\$11.25	\$11.65	\$12.10
Auto Dealership	per 1,000 SF	C 14 C 14 C	515 75	816 28	\$16.88	\$17.48	\$18.15
Bank/Financial Inst.	per 1,000 SF	4 14.30	* RB 25	\$92.23	\$95,63	\$99.03	\$102.86
Вакегу	per 1,000 SF	00.000	\$ 36 75	89.758	\$39,38	\$40.78	\$42.35
Bar	per 1,000 SF	924.30	589.25	\$92.23	\$95,63	\$99,03	\$102.86
Dry Cleaner	per 1,000 SF	\$38.30 810.50	415.75	516.28	\$16.88	\$17.48	\$18.15
Half, Lodge, Auditorium	per 1,000 SF	540.55	\$15.75	\$16.28	\$16.88	\$17.48	\$18,15
Health Studio, Gym	per 1,000 SF	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	\$52.50	\$54.25	\$56.25	\$58,25	\$60.50
Market w/Disposal Unit	per 1,000 SF	433.00	510 50	\$10.85	\$11.25	\$11.65	\$12.10
Market w/o Disposal Unit	per 1,000 SF	0075	\$21.00	\$21.70	\$22.50	\$23.30	\$24.20
Medical/Dental Office	per 1,000 SI	67.00	\$10.50	\$10.85	\$11.25	\$11.65	\$12.10
Business Office	per 1,000 SF	67.00	\$10.50	\$10.85	\$11,25	\$11.65	\$12.10
Place of Workship	per 1, ued ar	201.00	531.50	\$32.55	\$33.75	\$34.95	\$36.30
Public Agency	per 1,000 Sr	\$45.50	\$68.25	\$70.53	\$73.13	\$75.73	\$78.65
Mortuary	per Siumber Noom	CB7 50	\$131.26	\$135.63	\$140.63	\$145.63	\$151.26
Restaurant	per 1,000 SF	870.00	\$105.00	\$108.51	\$112.51	\$116.51	\$121.01
Restaurant, Take-out Only	per 1,000 or	87.00	\$10.50	\$10,85	\$11.25	\$11.65	512.10
Rotail	per 1,000 SF	\$3.50	\$5.25	\$5,43	\$5.63	\$5.83	\$6.05
Warehouse	per 1,000 Sr	27.00	\$10.50	\$10.85	\$11,25	\$11.65	512.10
Used Car Lot	per 10 fixtures	01:10	\$36.75	\$37.98	\$39,38	\$40.78	\$42,35
CarWash	per Stall	05.424	\$10.50	\$10,85	\$11.25	\$11,65	\$12.10
Carter(Basetty Shoo	per Chair	00.75	23.00	\$21.70	\$22.50	\$23.30	<b>\$0</b> .00
Danvery Court	per Lane	514.00	645.75	516 28	\$16.88	\$17.48	\$18.15
DOWNING CITES	per Sleeping Room	410.30	413.13	\$27.13	\$28.13	\$29.13	\$30.25
Self Service Laundry	per Machine	05,714	\$5.25	\$5.43	\$5.63	\$5,83	\$6.05
Gerande	por Bay	27.00	\$15.75	\$16.28	\$16.88	\$17.48	\$18.15
Beet Home/Boarding House	per Bed	00.00	\$52.50	\$54,25	\$56.25	\$58.25	\$60.50
in the second se	per 100 Students	200.00	\$5.25	\$5.43	\$5.63	\$5.83	\$8.05
Service Station	раг Ритр	43.30	£15.75	\$16.28	\$16.88	\$17.48	\$18.15
Selvice Contract	per 100 Seals	06,014	0.00	C260 22	\$269.81	\$279.40	\$290.20

## **Sewer Connection Fee**

The City of Auburn currently charges a sewer connection fee of \$3,500 per dwelling unit (for both single and multi-family dwelling units), which was determined by the rate study conducted in 1995. Commercial and Industrial users are charged a minimum fee of \$3,609 plus \$5.25 per gallon of daily water use above 265 gallons per day, or on the basis of strength.

As discussed in Section 2, a portion of the WWTP Upgrade and Expansion project will provide capacity for future users. Approximately 18 percent, or \$2,135,455 in cost, is attributable to new development. Table 4-1 shows the fee associated with the project for new development.

Table 4-1
Calculated Sewer Fee for Treatment Only

ITEM	Assumption	Local WWTP Project
New Development's Share of Total Project Cost		\$2,135,455
Financing Factor [1]	1.11	\$2,367,509
TOTAL COST		\$4,502,963
Additional Capacity Added (GPD)	1 to 1	300,000
Cost per Gallon Gallons/Day per EDU Cost per EDU		\$15.01 187 \$2,807

[1] Assumes that 100 percent of the costs are financed:

Financing Costs;	
Amount Financed	\$2,135,454.55
Rate	4.75%
Term	30
Bond Load Factor	1.11
Annual Debt Service	\$150,098.78
Total Estimated Interest Charges Paid	\$2,367,508.80

This calculated fee is only for the WWTP project and does not include any buy-in to the existing facilities, particularly for the collection system. Therefore, it is recommended that the fee amount shown in Table 4-1 be added on or in addition to the existing fee charged by the City. As

 March 2007
 City of Auburn

 4-1
 Sewer Rate & Fee Analysis

such the existing fee could be considered a "buy-in" amount to the existing facilities. The revised fee per EDU is shown in Table 4-2. The fee amount also includes an administration charge to allow the City to recuperate costs associated with administering the fee program.

Table 4-2
Revised Sewer Connection Fee per EDU

Item	Amount
Existing Fee Buy-In Amount	\$3,500
New Treatment Capacity	\$2,807
Subtotal	\$6,306.85
Administrative Fee at 2.5%	\$157.67
Total Fee per EDU	\$6,464.52
Total Fee per EDU - Rounded	\$6,465.00

It is proposed that the City consider altering how it charges actual land uses when developers pull building permits. The methodology proposed is similar to how Placer County charges its sewer development impact fee.

The fee per EDU, estimated above at \$6,465 would be multiplied times the equivalent dwelling unit factors that the City basis its monthly sewer charge on, as shown in Table 4-3.

Table 4-3 EDU Factors by Type of Development

Type of Establishment	Equivalent Dwelling Units
Pacidontial	
Residential Single Family	1.00011-4
Duplex/Triplex/Condo	1.000 per Unit
Multi-Family	0.771 per Unit
Mobile Home Park	0.714 per Unit
Modile nome Park	0.714 per Space/Unit
Non-Residential	
Auto Dealership	0.200 per 1,000 SF
Bank/Financial Inst.	0.300 per 1,000 SF
Bakery	1.700 per 1,000 SF
Bar	0.700 per 1,000 SF
Dry Cleaner	1.700 per 1,000 SF
Hall, Lodge, Auditorium	0.300 per 1,000 SF
Health Studio, Gym	0:300 per 1,000 SF
Market w/Disposal Unit	1.000 per 1,000 SF
Market w/o Disposal Unit	0.200 per 1,000 SF
Medical/Dental Office	0.400 per 1,000 SF
Office Building	0.200 per 1,000 SF
Place of Workship	0.200 per 1,000 SF
Public Agency	0.600 per 1,000 SF
Mortuary	1.300 per Slumber Room
Restaurant	2.500 per 1,000 SF
Restaurant, Take-out Only	2.000 per 1,000 SF
Retail	0.200 per 1,000 SF
Warehouse	0.100 per 1,000 SF
Used Car Lot	0.200 per 10 fixtures
Car Wash	0.700 per Stall
Barber/Beauty Shop	0.200 per Chair
Bowling Alley	0.400 per Lane
Hotel, Motel	0.300 per Sleeping Room
Self Service Laundry	0.500 per Machine
Garage	0.1 <b>00</b> per Bay
Rest Home/Boarding House	0.300 per Bed
School	1,000 per 100 Students
Service Station	0.100 per Pump
Theatre	0.300 per 100 Seats
Brewery	4.800 per 1,000 SF

Appendix A

Sewer Rate Model, Scenario 1 – 2007-08

¥

Customer Category  Category  Intal Samily wt Sewer Lift Stat. [2] Triplex/Confo Triplex/Confo Samily (Fait fee per Unit) Samily (Sewer Lift Station) [2] Samily (Sewer Lift Station) [2] Samily Sewer Lift Station) [2] Samily Sawer Lift Station [2] Saw	Basis of Charge Charge Per Unit per 1,000 SF	Accounts (A) (A) (A) (A) (A) (A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	93073 3,073 448 511 611,226 3 1,226 90 60 60 60 60 60 60 60 60 60 60 60 60 60	EDU 1.60 1.60 0.77 0.77 0.20 0.30 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.7	ADWF/User (RB/D)   131 (P)   187 288 288 308 318 37 56 58 58		Flow MGD (E)=(A)=(48) 0.5747 0.1368 0.0188 0.0454 0.0454 0.1638 0.0008 0.2096 0.0004		How MG  K/=(E),209.77 209.77 37.17 49.92 6.88	100 July 100
r Lift Stat. [2] r Lift Stat. [2] r Lift Stat. [2] r Lift Stat. [2] Station) [2]	20 SF	Accounts (A) (2,985 447 511 611 4,004 1322 1323 111 55	n m − − t n n n n + 1 n n n n − t n	1.00 1.22 1.43 1.43 1.65 0.77 0.20 0.30 1.70 1.70			(F)+(A)+(B) 0.5747 0.01018 0.1368 0.0168 0.0454 0.1638 0.0050 0.0045 0.0045		209.77 37.17 49.92 6.88	
LUK SIAL. [2] LUK SIAL. [2] Y Y SIAKON [2]	Until	2.985 447 447 611 611 322 322 32 11 11 5	3,073 448 511 611 1,226 3 1,544 16 6 6 6 6 6 6 7 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1.00 1.22 1.43 1.45 1.45 0.77 0.20 0.30 0.71			0.5747 0.1308 0.1308 0.0168 0.0454 0.0454 0.0008 0.2090 0.00046 0.00046		209.77 37.17 49.92 6.86	
Station) [2]	Unit Unit Unit Unit 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	2,985 447 611 611 4,004 7 322 322 323 323 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3,073 448 511 611 7,226 1,526 1,544 1,644 16 16 16 16 15 15 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1.00 1.22 1.43 1.43 1.65 0.77 0.20 0.30 0.30 0.71	197 227 228 308 308 134 114 114 117 118 318 318 318 318		0.5747 0.1018 0.1368 0.0188 0.0454 0.1638 0.0008 0.0008 0.0004 0.0040		209.77 37.17 49.92 6.86	
Lift Stat. [2] Tulk Stat. [2] Tulk Stat. [2] y Station) [2]	Unit Unit Unit Unit Unit Unit Unit Unit	2,885 2,117 611 611 7,004 7,004 11 11 11 11 11 11 11 11	5.17.6 6.11.6 7.15.26 7.15.43 7.15.44 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	1.43 1.43 1.43 1.65 0.77 0.30 0.30 0.30	227 228 308 308 314 184 184 318 318 318 318		0.1018 0.138 0.0188 0.0454 0.1638 0.0008 0.2096 0.0046		37.17 49.92 6.86	
r Liff Siat. [2] r Liff Siat. [2] r Liff Siat. [2] r r Station) [2]	1 Unit 1 Unit 1 Unit 1 000 SF 1 000 SF	252 322 323 111 111 121 132 133 133 141 151 151 161 161 161 161 161 161 161 16	448 611 4,093 1,226 1,544 1,644 10 10 10 10 10 10 10 10 10 10 10 10 10	1.43 1.65 1.65 1.65 1.70 1.70 1.70 1.70	268 208 308 31 58 318 318 318 318		0.1388 0.0188 0.018321 0.0454 0.1638 0.0008 0.2096 0.0012 0.0045		49.92	
r Lift Stat. [2]  y r Vnti) Station) [2]	Unit Unit Unit Unit Unit Unit Unit Unit	4,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004	4,093 315 1,226 1,544 32 32 32 6 6 6 6 6 7 16 7 16 16	1.85 1.77 0.77 0.90 0.20 0.30 0.71	308 144 134 134 318 318 318 318		0.0188 0.8321 0.0454 0.1638 0.0006 0.2096 0.0012 0.0045	e la comita	6.86	
r Lin Siat. [2]	1.000 SF 1.0	222 322 323 4004 4004 4004 4004 4004 400	4,093 315 1,226 1,226 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,	0.77 0.77 0.20 0.20 0.30 0.30 0.30	76. 44. 76. 88. 88. 88. 88. 88. 88. 88. 88. 88. 8		0.0454 0.0454 0.1638 0.0009 0.2096 0.0045 0.0045	ilaneri L		
y r Unii) Station) [2]	Unit Unit 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	4,000,4 322,000,000,000,000,000,000,000,000,000,	315 315 1,226 32 32 80 80 81 6 16	0.77 0.77 0.99 0.20 0.30 0.30 0.30	144 134 131 131 131 131 131 131 131 131		0.0454 0.1638 0.0008 0.2096 0.0012 0.0045	egizite A	303.71	
r Unii) Station) [2]	Tubil Tubil 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	225 22 52 57 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58	315 1,226 3,2 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,64	0.77 0.30 0.20 0.30 0.70 0.70	144 134 134 137 131 131 131 131 131 131		0.0454 0.1638 0.2096 0.2096 0.0012 0.0045		40.04	
r Unii) Station) [2]	1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	322 1 23 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,226 32 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,644 1,6	0.71 0.99 0.20 0.30 1.70	461 481 862 8163 8163 8163 8163 8163 8163 8163 8163		0.1638 0.0006 0.2096 0.0012 0.0045		50.73	
r Dnii) Station) [2]	1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	25 0 T 0 V E 9 c	1,544 32 32 80 80 16 51	0.20 0.30 1.70 0.70	184 37 58 318 318 56		0.0006 0.2096 0.0012 0.0045		20.00	
Station) [2]	1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF		32 32 80 80 6 6 7 7 13	0.20 0.30 1.70 0.71	37 58 318 131 58		0.2096 0.0012 0.0045 0.0020		0.20	
	7,000 SF 7,000 SF 7,000 SF 7,000 SF 7,000 SF 7,000 SF	<u> </u>	8 8 8 5 5 75 £1	0.20 0.30 1.70 0.70	37 58 318 318 318		0.0045 0.0020		(C.9)	
	1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	0 <u>- 0 r u o u</u>	88 8 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.20 0.30 1.70 0.70	37 58 318 131 318 56		0.0045 0.0020			
	1,000 SF 1,000 SF 1,000 SF 1,000 SF 1,000 SF	3 <u>7 10 4 10 10</u> 10	2 8 8 5 2 12 ET	0.30 1.70 0.70	85 E 1318 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S		0.0045	j.	0.43	, ,
	7,000 SF 7,000 SF 7,000 SF 7,000 SF 7,000 SF	- w - m w - m	6 to 15 to 1	0.70	318 318 318		0.0020		1.63	
	7,000 SF 7,000 SF 7,000 SF 7,000 SF 7,000 SF	0 F M W F	57. S. E.E.	0.70	318 348				0.72	
Contract Con	1,000 SF 1,000 SF 1,000 SF	≻ m ω m	5 5 ET	4 70	318		0.0020		0.74	
	1,000 SF 11,000 SF 11,000 SF	m up m	. F. ET		28		0.0015		0.53	
1	71,000 SF 71,000 SF	90 (	13 51	7.7	3 ;		0.0028		7.04	
Andlocium	11,000 SF		2	0.30	1		0.0007	7	0.27	
	- 4 000 SF	,		05.0	7		0.0084		2.34	
		2	Ħ.	00.1	200		0.0010		0.38	
*	ser 1,000 SF	.7	56	0.20	5 1		0.0087	ľ	3,19	
	aer 1,000 SF	Ŧ	117	0.40	6 7		0.0519		18.04	
Zilico Zilico	nar 1,000 SF	184	1,388	0.20	7 6		0.0050		1,83	•
	er 1,000 SF	15	134	0.20	75		0.0000	•	6.10	
- Time	ner 1,000 SF	6	149	0.60	71.0		0.0024		69.0	
lency	ner Slumber Room	EV.	Ç	1.30	243		0.0381		13,80	
	ner 1 000 SF	38	20	2.50	100	-	0.0053		1,94	
	per 1 000 SF	F	4	2.00	374		0.000		15.08	
Jraini, Lake-dui Ony	ar 1 000 SF	158	1,103	0.20	37	•	75000		1.00	
	per 1 000 SF	41	147	0.10	6		0.002,0	•	0.14	
,	ner 10 fixtures	2	2	0.20	ř		0.0005		0.19	
בֿסַ	ner Stat	***	4	0.70			0.0069		2.51	
	ner Chair	32	184	0.20	31		00000		0.00	
dono	nor Lane	•	,	0.40	ָר ע		0.0078		2,85	
•	ner Steeping Room	K)	138	0.30	B 7		0.0079		2.87	
	ner Machine	en	<b>8</b>	0.50	2 7		0.0053		1.85	
Vice Lauren	ner Bav	27	285	0.10	n (	-	0,0070		2,54	
-	oer Bed	n	124	0.30	8 5		0.0064		2.34	•
Sme/Boaroung mouse	ner 100 Students	7	34	1.0	787		0.0021		0.75	
	ner Pump	-	110	0.10	n (		0.001		0.41	
Station	ner 100 Seats	2	202	0.30	ם ה		00000		00.0	
	ner 1,000 SF		•	4.60	989		96160		87.46	
Browery		109	4,401				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		467.58	
		4.934	10,038				6107.1	***	Ş	
SUBTOTAL							0.1370		3	
Infilmiton/Inflow							1,4183		517.58	
TOTAL			1							
Francisco (hazen on Flow & Sewer Lift Charge)	r Lift Charge)		6,852					No. of the last of	***************************************	wer char

Table A-1 Summary of Wastewater User Characteristics

(1) Only flow is considered in this rate analysis. This is typical for smaller clies.
[2] The EOU and flow factor for units requiring use of sewer ith stations is increased to account for additional costs related to operating and maintaining the sewer lift station. See Tables D-1 and D-2 for details.

Prepared by ECO.LOGIC

"sisoo kud"

Subtotal

\$227,478 \$660,800 \$248,202

\$0 (\$56,137) \$3,515,893

2

(\$14,034) \$886,196

(\$14,034) \$886,196

\$0 (\$70 171) \$4,480,982

\$2,824,123

Capital Reserve for Regional Project Credit/Offset for Other Revenues

Total

General Reserve

Current Debt Service Additional Debt Service

\$227,478 \$860,800 \$248,202 \$0 (\$56,137) \$3,594,785

\$56,870 \$165,200 \$62,050

\$56,870 \$165,200 \$82,050

80% 80% 80% 100%

20% 20% 20% 0% 20%

\$284,348 \$826,000 \$310,252

\$284,348 \$0

0.00%

\$180,485

					Scenario 1	2007-08	
Table A-2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sve Treatment Sve	E			Local WWTP Project	
Projected Costs and Distribution between Collection and Headings of Trans.	reen Collection a	a for morning to the	<u>.</u>				
		, , ,		Alfocation	Collection System	Treatment System	
	Inflation	5006-07	2007-08	Collection Treatment	Cost Fixed	arlabie Cost Fixed	Variable
		Years Inflated:	F				
Expenditures							
Administrative Expenses Malerials and Services	7.00%	\$469,600	\$176,455	20% 80% 20% 80%	\$35,291 \$35,291 \$98,616 \$98,616 \$338,640	\$141,164 \$141,164 \$394,464 \$315,571 \$ \$1,354,560 \$1,354,560	\$78,893
Contract Operations Capital Projects/Facility Replacement	5.00% 5.00%	\$1,612,5/1	000,0008				
Capital Outlay	5.00%	\$25,000 \$87,208	591,568				
Additional Costs due to Local Project	5.00%	50 \$2,359,290	\$50,000 \$3,130,553			\$2,435,549 \$	\$78,893

Unit Cost Determination															
				1			Cast			T.	otal influent		Unit Cost Par.	Por:	
Cost Category	Allocated	Flow	BOD	Bob SS	S	Flow	800	SS	s	Flow	BOD	SS	Mgal of Flow Kib of BOD Kib of SS (\$Mgal) (\$Mdal)	Kib of SS (\$/Kib)	10 (\$/Mgal)
	Costs						-		T						
Calendary Sustain OKM Costs [1] [2]							!	•		10	6	8	51.186.67		\$131.74
Fixed	\$616,111	90%			20.00	\$554,499	3 3	2 2	305		0.00	00.0		;	20.00
Variable Total Collection	\$616,111					\$554,	2	<b>Q</b>	\$61,611				\$1,185.67 \$0.00	\$0.00	5131.74
		***													1
Treatment OEM Costs	\$2,435,549	90.5% 0.63			10.00%	\$2,191,994	S,		\$243,655	467.67	00'0	00'0	54,687,08		\$520,79
Variable	\$78,893	%.06			10.00%		3, 5	G 8	57,889	467,137	3	3	\$4,838.02 \$0.00	\$0.00	\$537,66
Total Treatment	\$2,514,442					300 TH WY 7 7	<b>:</b>					1			C7 L1.63
	84 140 248	7600			10.00%	\$999,313	9 <b>5</b>	0.5	\$111,035	167.67	0.00	8.0	10,007,24		1
Debt Service	arc'arr'i				10.00%	20	S,	O\$	S	467.67	0.00	0.00	\$0.00		20.00
Capital Reserve for Regional Project	7												58 151.40		\$906.82
SUBTOTAL	\$4,240,901														
															566.34
Other Cost Impacts	5310 252				10.00%	\$279,227	05	O.\$	\$31,025	467.67	20.5	9 0	00.786¢		\$0.00
General Reserve	\$00				10.00%	æ	S	2 5	200	467.67	9.0	8 8	(\$135.04)		(\$15.00)
Credit/Ogset for Other Rovenues	(570,171)	×06			10.00%	(\$63,154)	2 05	2 3	200	467.87	00.0	0,00			\$0,00
Annual Payment to Uncoln for Treatment	0\$				200	\$216.073	25	2	\$24,008				\$462.02 \$0.00	20.00	7
Total	\$240,081								800 0774			-	\$8,523,42 \$0.00	\$0.00	\$958.16
ISTOI	\$4,480,982					\$4,032,864	g,	2	000,0440						
1 2 2									-	-					'we conta

							Scenario 1		02	2007-08						
Table A-4 Altocation of Costs to Flow, BOD, and SS by Customer Category	d SS put	y Custom	er Cate	gory					LOCAL WY	LOCAL WWW IT FILMS						
						Operating Custs	asts			Capital Costs			i			
				Collection	lon		Treatment			Debt Service			100	T Revenue kmo act	=	Total
Unit Cost/Customer	Flow E	-	55	Flow	M	Flow		(\$/Mgal)	Flow (\$/Mgal)		(S/Mgaf)	Subtotal	(S/Mgaff		(SiMgal)	
Category	MGNr	KIDYr	KIDIYI	(S/Mgal)	THE SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AD	72 81.0 7.	The second	5537.64	52,136.73	The section of	\$237.41	\$90'6\$	\$462.01	(1917) June	\$51.33	\$9,551
Unit Cast		-	1	ra:cat'tt	11716									3		
							i.e.				000	64 any 456	CDC 015	i i	\$10.768	\$2,009,847
Residential	209.77		•	\$248,709	\$27,634	\$1,015,019		\$112,780	5448,220		200,000	\$337.062	\$17,173		51,908	\$356,143
Strote Family w/1 Sower Lift Stal	37.17		•	\$44,071	24,897	\$179,860		*05'01.*	\$13,423 \$106,658	i é	511.851	\$452,627	\$23,081	÷.	\$2,582	\$478,250
Single Family W/Z Sewer Lift Stat.	48.92		*	\$59,181	\$6,576	5241,527		23.696	\$14 649	· · · · · · · · · · · · · · · · · · ·	\$1,628	\$62,168	53,167		2352	\$65,688
Single Family w/3 Sewer Lift Stat.	9.86	,	,	\$8,129	5903	477.774	100 m	787 537	5648.949		\$772,105	\$2,754,021	\$140,317	ui.	\$15,591	\$2,509,526
Subtotal - Single Family	303,71		•	620'090\$	250,044	200,504,14	,								- 6054	C4 58 875
				199013	52 184	\$80.211		\$5,912	\$35,420		23	\$150,316	BCD./2		53 058	\$672.284
<b>Duplex/Triplex/Cando</b>	16.59		,	710,077	C7 869	\$289 015	語・きょう	\$32,113	\$127,026		\$14,781	2541,622	DAG" 175		2	\$1.934
Mutil-Family (Flat fee per Unit)	59.73	•	•	00,00	763	11.85	京 かんだい	\$109	\$431		548	51,631	250	16	53 927	\$733,044
Multi-Family (Sewer Lift Station)	0.79	í	, ,	\$90.711	\$10.079	\$370,204		\$41,134	\$163,478		518,164	ca/'reat				
Subfotal - Multi-Family	6.0	•	,													
									6022		2102	116,53	\$199		225	\$4,132
Non-Ketidential	0.43		•	\$511	224	\$2,087		7575	3202		200	\$14,805	5754		28.	\$15,643
Auto California	163	,	1	\$1,936	\$215	57,90d		1000	51.53		5170	\$6,502	1553	: ·	à i	70,00
Bandrinandar IIIst	3.72	,	,	\$850	294	53,470		2002	24 587		\$176	\$6,734	8343	31	200	GLF, 14
a myeri y	0.74	,	,	5680	\$98	230,53		2862	\$1 133	e e	\$21.5	\$4,807	\$245		7	10000
Bar	53	,	•	\$628	\$70	\$2,565		1507	\$2,230	180 - 1. TELL	\$248	\$9,485	2482		į.	27.505
Lity Creation	2	,	,	\$1,238	\$138	150,63		2146	\$581	6.	\$65	\$2,465	\$128			\$22.482
Hay, Louge, Audion Line	0.27	1	1	\$322	236	21,110		51.260	\$5,009		\$557	\$21,259	\$1,083		S.18	53,446
Lacter will speed Unit	2,34			\$2,780	25.5	511,34	E	. \$183	\$789		\$82	\$3,262	0110		\$164	\$30,523
Market w/o Disposal Unit	0.36	T		3420	76430	\$15.418	100	\$1,713	\$6,808	10.7	8/3	528,833	SB 752		2385	\$181,502
Medical Office	3,19	٠	'	53,778	27 408	591 662	05 1011	\$10,185	\$40,477		164.7	1111111	SAGE	·	205	\$17,576
Pusiness Office	18,94	2	,	\$22,400	25.42	\$8.876	(1) (1)	\$986	\$3,820		27.49	656 363	\$2,820	**	\$313	\$58,486
Place of Workship	1.83		'	57.73	2804	\$29,537	600	53,282	\$13,043		3	\$3.046	\$410	節を	246	\$6,502
Public Agency	6,10	٠		\$1.052	\$117	\$4,293		2477	DAR'LS		200	\$126,009	\$6,420		\$713	5133,143
Мопизу	2 c	,		\$16.476	\$1,831	\$67,240		57,477	760,674		5480	\$17,564	\$895			000,014
Restaurant	20.52	, ,	,	\$2,298	\$255	\$9,372		700,03	612 223		\$3,576	\$136,562	56,958		7 7	4 14 547
Restaurant, Take-out Only	15.05		,	\$17,855	\$1,984	572,871	36	6230	52.140	0.5	\$238	\$9,083	2463		, 0	\$1,308
	100	ı	•	\$1,188	\$132	74,847		G	\$292		203	\$1,236	104	is.	510	\$1,831
Waterduse	0.14		•	\$162	910	5005	1.7	\$103	\$408		3	11,732	S1 160	1	\$129	\$24,066
Car Wash	0.19	,	1	225	155	\$12.154	di.	\$1,350	\$5,367	31	900	5	50	ş.,	95	2
Rather/Beauty Shop	2.51		1	016,26	S	20	10.	20	05		¥ #	\$25,809	51,315	\$	\$146	527,270
Bowing Allay	0.00		)	575 57	\$375	\$13,772		\$1,530	56,082		\$681	\$25,895	51,324		2147	\$2/.4m/
Hotel, Matel	2.05	•	•	53 399	\$378	\$13,871		51,347	40,123		\$463	\$17,701	2065		35	CO 7 7 2 3
Self Service Laundry	7.00		•	52,314	\$257	59,445	3, j	21,050	\$4,17		\$5603	\$23,024	51,173		25.50	522,405
Garage	2	•		\$3,010	200	\$12,286		796.15	766.92		\$555	\$21,204	21,080		2 2	\$7.194
Rest Home/Boarding House	2.5		,	\$2,772	\$308	\$11,315		2404	\$1,604		\$178	\$6,808	7,757		\$21	\$3,699
School	0.76	,	,	06B3	58	22,023		5218	5870	D.	265	25,630	5	Ě	8	2,
Theorie	0.41		1	\$482	A CA	os S		20	S :		200	\$793.111	\$40,409		\$4,490	5838,010
Brawery	000	t •	, 1	\$103,700	\$11,622	\$423,214	S.	\$47,024	5155,684			•			524 ADB	\$4.480.982
Subtotal	7				***	. 25.7 S. B.		\$251,444	\$999,313	E E	\$111,035	\$111,035   \$4,240,901	5130,444 100			
TOTAL	467.68	00.0	00'0	\$554,489	140	A. L.						4	And the second supplied to the second supplin		l	ode laso.
					-											

Table A-5
Detailed Sewer Rate Calculation

Scenario 1	2007-08
	Local WWTP Project

	1 1	1	Annual		ly Cast
	Number of	Allocated	Cost	Billing Unit	Basis of
Sustomer Category	Billing Units	Cost	Billing Unit	Mo. Charge	Charge
Residential					
Single Family	3,073	\$2,009,847	\$653.97	<b>654 50</b>	per Unit
Single Family w/1 Sewer Lift Stat.					
Single Family w/1 Sewer Lift Stat.	448	\$356,143	\$794.96		per Unit
	511	\$478,250	\$935.91		per Unit
Single Family w/3 Sewer Lift Stat.	51	\$65,688	\$1,076.85	\$89.74	per Unit
Subtotal - Single Family	4,093	\$2,909,928	[		
Duplex/Triplex/Condo	315	\$158,826	\$504.21	\$42.02	per Unit
Multi-Family (Flat fee per Unit)	1,226	\$572,284	\$466.93		per Unit
Multi-Family (Sewer Lift Statlon)	3	\$1,934	\$645.20	•	per Unit
Subtotal - Multi-Family	1,544	\$733,044	3313.23	400.11	per omit
No. 20 April 1			l l		
Non-Residential					
Auto Dealership	32	\$4,132	\$130.79		per 1,000 SF
Bank/Financial Inst.	80	\$15,643	<b>\$</b> 196,19		per 1,000 SF
Bakery	6	\$6,871	\$1,111.74		per 1,000 SF
Ваг	16	\$7,115	\$457.78		per 1,000 SF
Dry Cleaner	5	<b>\$</b> 5,079	\$1,111.74	\$92.65	per 1,000 SF
Hall, Lodge, Auditorium	51	\$10,001	\$196.19	\$16.35	per 1,000 SF
Health Studio, Gym	13	\$2,605	\$196.19	\$16.35	per 1,000 SF
Market w/Disposal Unit	34	\$22,462	\$653.97	\$54.50	per 1,000 SF
Market w/o Disposal Unit	26	\$3,446	\$130.79	\$10.90	par 1,000 SF
Medical/Dental Office	117	\$30,529			per 1,000 SF
Business Office	1,388	\$181,502			per 1,000 SF
Place of Workship	134	\$17,576			per 1,000 SF
Public Agency	149	\$58,486			per 1,000 SF
Mortuary	10	\$8,502			per Slumber Room
Restaurant	81	\$133,143			per 1,000 SF
Restaurant, Take-out Only	14				per 1,000 SF
Retail	1,103	1 ,		1	per 1,000 SF
Warehouse	147	\$9,597			5 per 1,000 SF
Used Car Lot	10				Diper 1,000 SF
Car Wash	10	1			5 per lu inxtures 5 per Stall
		1		1	F
Barber/Beauty Shop	184	, - · · · · ·		1	D per Chair
Bowling Alley		\$0			
Hotel, Motel	139				5 per Sleeping Roor
Self Service Laundry	84		•		5 per Machine
Garage	288	1			5 per Bay
Rest Home/Boarding House	124			1	5 per Bed
School	34	<b></b> ,			0 per 100 Students
Service Station	110		4 \$65.40		5 per Pump
Theatre	20	\$3,89	9 \$196,19	\$16.3	5 per 100 Seats
Brewery	-	\$	0 \$0.00	\$0.0	per 1,000 SF
TOTAL		\$4,480,98	2		

"rate_calc"

Appendix B

Sewer Customers & EDU Factors

Table B-1 Summary of Existing Rates

Cuntomor	<b>-</b> .	<b>.</b>		2006-07	
Customer	Factor	Rate	Basis	Assessment	Billing Units
Residential					
Single Family	1,00	\$35.00	per Unit	\$1,236,060.00	2,943
Multi-Family (Flat fee per Unit)	0.69		per Unit	\$443,412.00	1,540
Multi-Family (Sewer Lift Station)	0.90		per Unit	\$1,135.00	1,040
CDBG \$13.00/mo Reduction	0.63		per Unit	\$34,140.00	129
CDBG 1SFD w/Disc 1 SFD w/oDlsc	1.63		per Unit	\$684.00	125
CDBG \$13.00/mo w/lift station	0.84		per Unit	\$2,128.32	(
CDBG w/Two Lift Stations	1.06		per Unit	\$890.40	2
CDBG w/3 Lift Station	1.28		per Unit	\$0.00	
CDBG 1 Apt w/Disc	0.31		per Unit	•	0
SFD w/1 Lift Station	1.22		per Unit	\$132.00	1
SFD w/2 Lift Station	1.43			\$225,738.24	442
SFD w/3 Lift Station	1.65		per Unit	\$306,010.80	509
of D W/3 Elit Station	1.00	\$57.55	per Unit	\$42,199.80	61
Non-Residential					
Auto Dealership	0.20	\$7.00	per 1,000 SF	\$2,653,98	32
Bank/Financial Inst.	0.30		per 1,000 SF	\$10,046.40	-
Bakery	1.70		per 1,000 SF	\$4,412.52	-
Bar	0.70		per 1,000 SF	\$4,569.39	
Dry Cleaner	1,70		per 1,000 SF	\$3,261,72	
Hall, Lodge, Auditorium	0.30		per 1,000 SF	\$6,423.06	
Health Studio, Gym	0.30		per 1,000 SF	\$1,672.94	_
Market w/Disposal Unit	1.00		per 1,000 SF	\$14,426.16	
Market w/o Disposal Unit	0.20		per 1,000 SF	\$2,213.40	
Medical/Dental Office	0.40		per 1,000 SF	\$19,606.78	
Office Building	0.20		per 1,000 SF	\$116,566.63	
Place of Workship	0.20		D per 1,000 SF	\$11,287.92	
Public Agency	0.60		0 per 1,000 SF	\$37,561.94	
Mortuary	1.30		0 per Slumber Room	\$5,460.00	
Restaurant	2.50		0 per 1,000 SF		•
Restaurant, Take-out Only	2.00		•	\$85,508.8	_
Retail	0.20		0 per 1,000 SF	\$11,918.70	
Warehouse	0.10		0 per 1,000 SF	\$92,669.6	
Used Car Lot			0 per 1,000 SF	\$6,163.B	
	0.20		0 per 10 fixtures	\$840.0	
Car Wash	0.70		0 per Stall	\$1,176.0	
Barber/Beauty Shop	0.20		0 per Chair	\$15,456.0	
Bowling Alley	0.40		0 per Lane	\$0.0	
Hotel, Motel	0.30		0 per Sleeping Room	\$17,514.0	0 1:
Self Service Laundry	0.50		0 per Machine	\$17,640.0	0 (
Garage	0.10		iO perBay	\$12,012.0	0 21
Rest Home/Boarding House	0.30		50 per Bed	\$15,624.0	0 1:
School	1.00	<b>\$</b> 35.0	00 per 100 Students	\$14,389.2	.0
Service Station	0.10	\$3.5	50 per Pump	\$4,620.0	10 1
Theatre	0.30	\$10.	50 per 100 Seats	\$2,504.0	
Brewery	4.80		00 per 1,000 SF	\$0.0	
Total				\$2,830,729.1	73

"existing_rates"

Appendix C

Projected Costs and Allocation Detail

	Budneted			Projected		
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
	£164 911	\$176.455	\$188,807	\$202,023	\$216,165	\$231,296
Administrative Expenses	#4E0 E00	\$493,080	\$517,734	\$543.621	\$570,802	\$599,342
Materials and Services	4400,000	94,500,000	£4 777 860	\$1 866 753	\$1,960,090	\$2,058,095
Contract Operations	1/6,210,14	007,080,14	000,777,14	\$664.500	\$694.575	\$729,304
Capital Projects/Facility Replacement	O 0 0 1 0 €	\$500,000 \$26.250	\$550,000 \$27,563	\$28.941	\$30,388	\$31,907
Capital Outlay	423,000	\$91.568	\$96,147	\$100,954	\$106,002	\$111,302
Expenditure Reimburse (GF-Admin.)	007,104 03	\$50,000	\$52,500	\$55,125	\$57,881	\$60,775
Additional Costs due to Local Project	\$2,359,290	\$3,	\$3,290,609	\$3,458,916	\$3,635,902	\$3,822,021
Subtotal	-			070700	878 7863	\$284 348
Opposition Service	\$284,348		\$284,340	4204,340	4204,040	\$826,000
	0\$	\$826,000	\$826,000	\$85e,000	\$620,000	000,000
Additional Debt Service	#180 A85	\$310,252	\$335,190	\$331,323	\$318,777	\$317,653
General Reserve	Cot. 00-7	U#	0\$	\$0	\$0	0 <del>4</del>
Capital Reserve for Regional Project	0 <del>4</del>	**************************************	CA 726 148	CA 736 148 54 900.587	\$5,065,027	\$5,250,022
Total	\$2,824,123	À	24,1 30,140	10010011		1
Total	\$0		(\$70,171)	(\$70,171) (\$70,171) (\$70,171)		(\$70,171) (\$70,171)
Credit/Offset for Other Revenues (Fee Inches)		6	¢4 665 976	\$4,830,416	\$4,994,856	\$5,179,850
A directed Total	\$2,824,123		0.0000.00			
Aujusteu Fora		58 7%	4.1%	3.5%	3.4%	3.7%
Percent Increase						

Prepared by ECO:LOGIC

able C-2 rojected Costs and Distribution between Collection and Treatment System	
H a	

						10.0	Coloradian Sychom	-	Trea	Treatment System	_
	Inflation	Budget		Allocation	1	Colle	CHOIL SYSIE	Veriable	4300	Flyad	Variable
	Adjustment	2006-07	2007-08	Collection Treatment	ent	Cost	Fixed	Variable	1600	novi	
		Years Inflated:	-								
Expenditures											
: :	7 00%	\$164.911	\$176,455		80%	\$35,291	\$35,291		\$141,164	\$141,154	679
Administrative Expenses	800 5	\$469,600	\$493,080		80%	\$98,616	\$98,616		4384,454	10,010,4	60.0
Malerials and Services	2 00%	51 612 571	\$1,693,200		80%	\$338,640	\$338,640		\$1,354,56U	000,450,14	
Contract Operations	3/00'0 1	0.5	\$600,000		%08	\$120,000	\$120,000		\$480,000	3480,000	
Capital Projects/Facility Replacement	5,0078	825 000	\$26,250	20%	80%	\$5,250	\$5,250		\$21,000	421,000	
Capital Outlay	700%	\$87,208	\$91,568		80%	\$18,314	\$18,314		413,233	000 053	
Expenditure Reimburse (GrAumin.)	\$ 00%	\$0	\$50,000	_	%00	<b>S</b>	0.5		530,000	C2 415 549	\$78.893
Additional Costs due to Local Fruject		\$2,359,290	\$3,130,553			5616,111	\$616,111		711110170	20100111	<u>.</u>
Sumotal					780.0	C56 870	\$56.870		\$227,478	\$227,478	
O THE CO	0.00%	\$284,348	\$284,348		* * * * * * * * * * * * * * * * * * * *	0000000	6185 200		\$660,800	\$660,800	
Current Debt Service	%00 0	0\$	\$826,000		80%	002,200	020,000		\$248 202	\$248,202	
Additional Debt Service		\$180,485	\$310,252	50%	80%	562,050	050,204		20	SOS	
General Reserve		20	20		%00	0.00	*****		(\$56.137)	(\$56,137)	
Capital Reserve for Regional Project		0\$	(\$70,171)		80%	(\$14,034)	(400,414)	05	\$3,594,785	\$3,515,893	\$78,893
Credit/Offset for Other Revenues		\$2,824,123	\$4,480,982			200,120	, 'pao				

Table C-3		od Treatment Sv	E			Scenario 1	2008-09 Local WWTP Project	-09 P Project	
Projected Costs and Distribution between Culterion and Projected Costs	een collection at	Co annual D				Collection System	Trea	Treatment System	-
	Inflation	Budget 2006-07	2008-09	Allocation Collection Treatment	Cost	Fixed Variable	Cost	Fixed	Variable
	and the same of th	Years Inflated.	3						
Expenditures Administrative Expenses	7.00%	\$164,911	\$188,807		% \$37,761 % \$103,547	\$37,761 \$103,547	\$151,045	\$151,045 \$331,350	\$82,837
Materials and Services Contract Operations	5,00%	\$469,600 \$1,612,571	\$1,777,860	20% 80%	• • • • • • • • • • • • • • • • • • • •	\$355,572 \$126,000	\$1,422,288 \$504,000	\$1,422,288	
Capital Projects/Facility Replacement Capital Outlay	5.00% 5.00%	\$25,000	\$27,563 \$96,147	20% 80% 20%	\$5,6 \$19,2	\$5,513 \$19,229	\$22,050 \$76,917 \$52,500	\$22,030 \$76,917 \$52,500	
Expenditure Kelmburse (or-Aumin.) Additional Costs due to Local Project	2.00%	\$0 \$2,359,290	\$52,500 \$3,290,609	0% 100%	% SU \$647,622	\$647,622	\$2,642,988	\$2,560,160	\$82,837
Subtotal Current Debt Service	%00.0	\$284,348	\$284,348	20% 80% 20%	% \$56,870 % \$165,200	\$56,870 \$165,200	\$227,478	\$227,478 \$660,800	
Additional Debt Service	8.00°a	\$180,485	\$335,190	20% 80%	% \$67,038 % \$67,038	\$67,038 \$0	3500, (32.5 \$ .	\$200,132	
General Reserve Capital Reserve for Regional Project Credit/Offset for Other Revenues		\$0 \$0	\$0 (\$70,171) \$4 665 976	-	(\$14,0 \$922,6	(\$14,[ \$922,6	(\$56,137) \$3,743,281	(\$56,137) \$3,660,444	\$82,837
Total		34,044,143							"pro/_casts"

Chefon	ection and industrial of them
(	Section between Collection between Colle
Table C-4	A

Adjustment 2006-07 Adjustment 2006-07 Years Inflation Years Inflated: 7.00% \$164,911 5.00% \$469,600 5.00% \$1,612,571 5.00% \$25,000 5.00% \$25,000 5.00% \$23,359,290 5.00% \$23,359,290	3 5202,023 5543,621 ,866,753 5261,500 528,941	Allocation Collection Treatment 20% 80% 20% 80% 20% 80%	Colle Cost 540,405 \$108,724 \$373,351 \$132,300	Collection System Fixed Variable Fixed Variable 105 \$40,405 124 \$108,724 125 \$373,351 100 \$132,300	S161,6 \$434,8 \$1,493,4	S s	
Inflation Budget   Adjustment 2006-07     Expenditures	3 \$202,023 \$543,621 \$66,753 \$581,500 \$281,500	Allocation Silection Treatment 20% 80% 20% 80% 20% 80%	Cost Cost \$40,405 \$108,724 \$373,351 \$132,300	sto. 724 \$108,724 \$373,351 \$132,300	\$161,6 \$434,6 \$1,493,4	### System   Fixed   Fixed   Fixed   Fixed   \$161,618   \$347,917   \$1,493,402	_
Adjustment 2006-07  Adjustment 2006-07  Years inflated:		20% 80% 20% 20% 80%	\$40,405 \$108,724 \$373,351 \$132,300	Fixed Variable \$40,405 \$173,351 \$132,300	in in	is	Variable
7.00% 5.00% 5.00% 5.00% 5.00% 5.00%	\$202,023 \$543,621 \$1,866,753 \$561,500 \$28,941		\$40,405 \$108,724 \$373,351 \$132,300	\$40,405 \$108,724 \$373,351 \$132,300	\$161,618 \$434,887 \$1,493,402	Ċħ	
7.00% \$164,6 5.00% \$1,612,5 5.00% \$1,612,5 5.00% \$25,6 5.00% \$25,6 5.00% \$87,5 5.00% \$87,5 5.00% \$87,5	\$202,023 \$543,621 \$1,866,753 \$561,500 \$28,941		\$40,405 \$108,724 \$373,351 \$132,300	\$40,405 \$108,724 \$373,351 \$132,300	\$161,618 \$434,887 \$1,493,402	ĊĄ	
7.00% \$164.5 5.00% \$469.0 5.00% \$1,612.9 5.00% \$25.0 5.00% \$25.0 5.00% \$87.5 5.00% \$87.5 5.00% \$87.5	\$202,023 \$543,621 \$1,866,753 \$561,500 \$28,941		\$40,405 \$108,724 \$373,351 \$132,300	\$40,405 \$108,724 \$373,351 \$132,300	\$161,618 \$434,887 \$1,493,402	ĊĄ	
5.00% \$1.612.5 5.00% \$1.612.5 5.00% \$25.5 5.00% \$25.5 5.00% \$87.5 5.00% \$87.5 5.00% \$87.5	\$543,621 \$1,866,753 \$561,500 \$28,941		\$108,724 \$373,351 \$132,300	\$108,724 \$373,351 \$132,300	\$434,887 \$1,493,402	\$347,917	
5,00% \$1,612,5 5,00% \$1,612,5 5,00% \$25,6 5,00% \$87,5 5,00%	\$1,866,753 \$661,500 \$28,941		\$373,351	\$373,351 \$132,300	\$1,493,402	\$1,493,402	\$86,979
5,101/5, 5,101,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100,5,5,100	\$1,000,735 \$661,500 \$28,941		\$132,300	\$132,300			
5.00% \$25.0 5.00% \$87,5 5.00% \$87,5 5.00% \$2,359,5	\$28,941				\$529,200	\$529,200	
5.00% 5.00% 5.00%	10,075		\$5,788	\$5,788	\$23,153	\$23,153	
5.00% \$87,5 5.00% \$2,359,5	700 0074		\$20,191	\$20,191	\$80,763	\$80,763	
5.90% \$2,359,7	HCB, 001 4	_	0.5	20	\$55,125	\$55,125	
	\$35,125 \$3,458,916	_	\$680,758	\$680,758	\$2,778,158	\$2,691,179	\$86,979
Subtotal					1		
	270		\$56,870	\$56,870	\$227,478		
0.00% \$284,348	2.264, 340		£185 200	\$165,200	\$660,800		
	\$826,000		390 004	\$66.285	\$265,059	\$265,059	
Additional Debt Service \$180,485	\$331,323	20% 60%	04	000	0\$	0 <b>\$</b>	
General Reserve	\$0 \$0	-	2		(CSB 137)	(\$56.137)	
פכו	(\$70,171)	20% 80%	(\$14,034)	(\$14,034)	Ş	ئن	\$86,979
	\$4,830,416		\$955,058	o¢ gcn'cc6 <b>¢</b>			

Table C-5	20 m	Treatment SV	94 84			[65]	Scenario 1		2010-11 Local WWTP Project	11 P Project	
Projected Costs and Distribution between Collection and Treament of States	sen collection a	ות וובשתווביוו בא.					Sympos		Тгаа	Treatment System	
	Inflation	Budget 2006-07	2010-11	Allocation Collection Treatment	ent	Cost	Fixed	Variable	Cost	Fixed	Variable
	- Company	Years Inflated:	4								
Expenditures									600	£479 039	
Pascenti autoriai de la	7.00%	\$164,911	\$216,165		80%	\$43,233	\$43,233		\$172,932	\$172,932	\$91,328
Materials and Services	5.00%	\$469,600	\$570,802			342,018	\$392.018		\$1,568,072	\$1,568,072	
Contract Operations	5,00%	\$1,612,571	\$1,960,090			\$138,915	\$138,915		\$555,660	\$555,660	
Capital Projects/Facility Replacement	5.00%	0.00	\$30,388	20%		\$6,078	\$6,078		\$24,310	\$24,310	
Capital Outlay	5,00%	587 208	\$106,002		80%	\$21,200	\$21,200		\$84,801	\$84,801	
Expenditure Reimburse (GF-Admin.) Additional Cosis due to Local Project	5.00%	0.5	\$57,881		•	\$0 \$715 604	\$0 \$715.604		\$2,920,298	\$2,828,970	\$91,328
Subfotal		\$2,359,290	\$3,635,902		•	2012			•	1	
	;		BPE FOUS			\$56,870	\$56,870		\$227,478	\$227,478	
Current Debt Service	%00.0	\$284,348	\$204,340 CR26,000		80% \$	\$165,200	\$165,200		\$660,800	\$660,800	
Additional Debt Service	0.00%	0.00	5318 777	20%		\$63,755	\$63,755		\$255,021	120,0628	
General Reserve		Cot not t	05	•	%00	<b>0</b> \$	<b>9</b>		OF C	7264 9347	
Capital Reserve for Regional Project		05	(\$70,171)		90%	(\$14,034)	(\$14,034)	5	(455,137) \$4 007 461	(330, 137) \$3,916,133	\$91,328
Credit/Offset for Other Revenues		\$2,824,123	\$4,994,856		•	687,385	256,1355	2			
10(a)											'proj_costs'

Local WWTP Project	lable C-o Projected Costs and Distribution between Collection and Treatment System
l ocal WWTP Project	e C e
2011-12	( <u>o</u>

	Inflation	Bridge		Allocation		Coll	Collection System	£	Trei	Treatment System	ء
	Adjustment	2006-07	2011-12	Collection Treatment	ıtment	Cost	Fixed	Variable	Cost	Fixed	Variable
		L									
		Years Inflated:	5								
Expenditures			4								
	7 00%	\$164.911	\$231,296	20%	%08	\$46,259	\$46,259		\$185,037	\$185,037	
Administrative Experises	%00°5	2469 600	\$599.342	20%	80%	\$119,868	\$119,868		\$479,473	\$383,579	\$95,895
Materials and Services	3,00,5	\$1 612 571	\$2 058 095	20%	80%	\$411,619	\$411,619		\$1,646,476	\$1,646,476	
Contract Operations	200.5	(S)	DOC 9572	20%	80%	5145,861	\$145,861		\$583,443	\$583,443	
Capital Projects/Facility Replacement	2,00,4	000 563	531.907	20%	80%	\$6,381	\$6,381		\$25,526	\$25,526	
Capital Outlay	2,00,0	CR7 208	\$111.302	20%	80%	\$22,260	\$22,260		\$89,042	\$89,042	
Expenditure Reimburse (GF-Adrilln.)	0.00 /0	004	SED 775	**C	100%	OS.	0\$		\$60,775	\$60,775	
Additional Costs due to Local Project Subtotal	a.00%	\$2,359,290	\$3,822,021			\$752,249	\$752,249		\$3,069,772	\$2,973,877	\$82,895
,	4		270 7000	30%	80%	558 870	\$56,870		\$227,478	\$227,478	
Current Debt Service	0.00%	\$264,346	000 3083	20%	80%	\$165,200	\$165,200		\$660,800	\$660,800	
Additional Debt Service	0.00%	0.00	3020,000	20%	80%	\$63,531	\$63,531		\$254,122	\$254,122	
General Reserve		004,0014	200	**O	100%	20	OS.		20	30	
Capital Reserve for Regional Project		0, 6	(150 474)	200%	A04,	(\$14.034)	(\$14,034)		(\$56,137)	(\$56,137)	
Credit/Offsat for Other Revenues		\$0.824,123	\$5,179,850	104		51,023,815	\$1,023,815	\$0	\$4,156,035	\$4,060,141	\$95,895

Attachment C

Appendix D

Sewer Lift Station Cost Allocation

Table D-1
Estimated Cost of O&M for Sewer Lift Stations

Item	Cost
Misc. Repairs	\$20,000
Major Equipment Replacement	\$60,000
Odor Control Chemicals	\$5,000
Phone systems: (35/ mo x 12 PS*12 months)	\$4,000
Labor (25 hrs per week x \$65/ hr x 52 weeks)	\$84,500
Power (5,000 / per month x 12 mos)	\$60,000
Total	\$233,500

Table D-2 Allocated Cost to Sewer Lift Stations

Units served by Lift Stations	Units	Wtd. Units
SFD Units w/Lift Station	448	448
SFD Units w/2 Lift Stations	511	1,022
SFD Units w/3 Lift Stations	61	183
MFD Units w/Lift Station	3	3
Total		1,656
Annual Lift Station Cost		\$233,500
Monthly Lift Station Cost		\$19,458.33
Cost per Lift Station Use		\$11.75

Table D-3
Calculated Lift Station Surcharge

Item	In Dollars	In EDU's
Charge Per EDU (from table 3-5)	\$54.50	
Charge per Lift Station 1 Lift Surcharge 2 Lift Surcharge 3 Lift Surcharge	\$11.75 \$23.50 \$35.25	0.22 0.43 0.65

# EXHIBIT "A" SCHEDULE OF SEWER RATE AND CHARGES APRIL 2007

#### I. USER FEES

Each user connected to the sewer system shall pay up to \$54.50 per sewer unit. The sewer units are listed on Attachment A. For purposes of collecting sewer charges, the following residential categories shall be defined as follows:

- Single Family Unit: A single family unit is defined generally as a single dwelling unit per parcel. However, if the parcel has a detached second unit ("granny unit"), the second unit would be charged at the duplex rate.
- Duplex, Triplex, Condo, or Townhome: These residential units would include 2 attached units or 3 attached or detached units per parcel.
- Multi-Family Unit or Apartment: This residential category would include 4 or more attached units per parcel.
- Mobile Home: This category would refer to a mobile home unit in a mobile home park.

#### II. CONNECTION AND PLANT EXPANSION FEES

For each connection to the city-owned public sewer a sewer connection and plant fee shall be paid at the time of building permit issuance. The connection fee is shall be determined based on the then current fee per sewer unit. The sewer units are listed on Attachment B. The sewer connection and plant expansion fee shall be as follows:

- July 1, 2007: \$3,500
- July 1, 2008: \$4,500
- July 1, 2009: \$5,500
- July 1, 2010: \$6,465

### III. RATE AND FEE ADJUSTMENTS

The schedule of charges may be altered or adjusted by action of the Auburn City Council. Automatic yearly adjustments shall occur on July 1 as provided by the City Ordinance to reflect variation in the construction cost index (Engineering News Record – 20- City Cost Index)

Attachment A
Sewer Rates – Sewer Units and Basis of Charge

Customer	Sewer	Basis of
Category	Unit	Charge
Residential		
Single Family	1.00	per Unit
Single Family w/1 Sewer Lift Stat.	1.22	per Unit
Single Family w/2 Sewer Lift Stat.	1.43	per Unit
Single Family w/3 Sewer Lift Stat.	1.65	per Unit
Daniel Tripley (Condet Towns	0.77	
Duplex/Triplex/Condo/Townhome	0.77	per Unit
Multi-Family	0.71	per Unit
Multi-Family w/1 Sewer Lift Station	0.99	per Unit
Mobile Home	0.71	per Space/Unit
Non-Residential		
Auto Dealership	0.20	per 1,000 SF
Bank/Financial Inst.	0.30	per 1,000 SF
Bakery	1.70	per 1,000 SF
Bar	0.70	per 1,000 SF
Dry Cleaner	1.70	per 1,000 SF
Hall, Lodge, Auditorium	0.30	per 1,000 SF
Health Studio, Gym	0.30	per 1,000 SF
Market w/Disposal Unit	1.00	per 1,000 SF
Market w/o Disposal Unit	0.20	per 1,000 SF
Medical/Dental Office	0.40	per 1,000 SF
Business Office	0.20	per 1,000 SF
Place of Workship	0.20	per 1,000 SF
Public Agency	0.60	per 1,000 SF
Mortuary	1.30	per Slumber Room
Restaurant	2.50	per 1,000 SF
Restaurant, Take-out Only	2.00	per 1,000 SF
Retail	0.20	per 1,000 SF
Warehouse	0.10	per 1,000 SF
Used Car Lot	0.20	per 10 fixtures
Car Wash	0.70	per Stall
Barber/Beauty Shop	0.20	per Chair
Bowling Alley	0.40	per Lane
Hotel, Motel	0.30	per Sleeping Room
Self Service Laundry	0.50	per Machine
Garage	0.10	per Bay
Rest Home/Boarding House	0.30	per Bed
School	1.00	per 100 Students
Service Station	0.10	per Pump
Theatre	0.30	per 100 Seats
Brewery	4.80	per 1,000 SF

Attachment B
Sewer Connection Fee – Sewer Units and Basis of Charge

Customer Category	Sewer Unit	Basis of Charge
Residential	-	
Single Family	1.000	per Unit
Duplex/Triplex/Condo	0.771	per Unit
Multi-Family	0.714	per Unit
Mobile Home Park	0.714	per Space/Unit
		F =
Non-Residential		A Company
Auto Dealership	0.200	per 1,000 SF
Bank/Financial Inst.	0.300	per 1,000 SF
Bakery	1.700	per 1,000 SF
Bar	0.700	per 1,000 SF
Dry Cleaner	1.700	per 1,000 SF
Hall, Lodge, Auditorium	0.300	per 1,000 SF
Health Studio, Gym	0.300	per 1,000 SF
Market w/Disposal Unit	1.000	per 1,000 SF
Market w/o Disposal Unit	0.200	per 1,000 SF
Medical/Dental Office	0.400	per 1,000 SF
Office Building	0.200	per 1,000 SF
Place of Workship	0.200	per 1,000 SF
Public Agency	0.600	per 1,000 SF
	200	per Slumber
Mortuary	1.300	Room
Restaurant	2.500	per 1,000 SF
Restaurant, Take-out Only	2.000	per 1,000 SF
Retail	0.200	per 1,000 SF
Warehouse	0.100	per 1,000 SF
Used Car Lot	0.200	per 10 fixtures
Car Wash	0.700	per Stall
Barber/Beauty Shop	0.200	per Chair
Bowling Alley	0.400	per Lane
Hotel, Motel	0.300	per Sleeping
Self Service Laundry	0.300	Room
	0.500	per Machine
Garage	0.100	per Bay
Rest Home/Boarding House School	0.300	per Bed
Service Station	1.000	per 100 Students
	0.100	per Pump
Theatre	0.300	per 100 Seats
Brewery	4.800	per 1,000 SF